HCD-WZ8D

SERVICE MANUAL

Ver 1.2 2004.10

AEP Model
UK Model
E Model
Australian Model

- HCD-WZ8D is the tuner, and the CD/DVD player section in MHC-WZ8D.

DVD Section	Model Name Using Similar Mechanism	HCD-SA30
	DVD Mechanism Type	CDM77A-DVBU20
	Optical Pick-up Name	DBU-1

SPECIFICATIONS

CD/DVD player section

Laser: Semiconductor laser (DVD: λ=650 nm, CD: λ=780 nm) Emission duration: continuous

Frequency response: DVD (PCM 48 kHz): 2 Hz – 22 kHz = (±1 dB) CD: 2 Hz – 20 kHz = (±1 dB)

Signal-to-noise ratio: More than 90 dB

Dynamic range: More than 90 dB

Video color system format: NTSC, PAL

DVD DIGITAL (OPTICAL) OUT (European, Russian and Australian models only) (Square optical connector jack, rear panel): Optical Wavelength: 660 nm

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range

Russian model: 65.0 – 74.0 MHz (There is no stereo effect) 87.5 – 108.0 MHz

Other models: 87.5 – 108.0 MHz

Antenna: FM lead antenna

Antenna terminals: 75 ohms unbalanced

Intermediate frequency: 10.7 MHz

AM tuner section

Tuning range

Latin American model: 530 – 1,710 kHz (with the tuning interval set at 10 kHz) 531 – 1,710 kHz (with the tuning interval set at 9 kHz)

European, Russian and Middle Eastern models: 531 – 1,602 kHz (with the tuning interval set at 9 kHz)

Other models: 531 – 1,602 kHz (with the tuning interval set at 9 kHz) 530 – 1,710 kHz (with the tuning interval set at 10 kHz)

Antenna: AM loop antenna

Antenna terminals: External antenna terminal

Intermediate frequency: 450 kHz

General

Power requirements

Power voltage is DC 9V and fed with STEREO CASSETTE DECK AMPLIFIER (DXA-WZ8D) from the external SYSTEM CONTROL connectors.

Power consumption

European and Russian models: 235 watts 0.3 watts (in Power Saving Mode)

Other models: 260 watts

Dimensions (w/h/d)

CD/DVD player/Tuner: Approx. 255 × 135 × 355 mm

Mass

CD/DVD player/Tuner: Approx. 3.0 kg

Supplied accessories: Remote Commander (1) Batteries (2) AM loop antenna (1) FM lead antenna (1) Speaker pads (20) Speaker cords (5) Video cord (1)

Design and specifications are subject to change without notice.

CD/DVD PLAYER TUNER

9-877-415-03
2004J16-1
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Sony Corporation
Audio Group
Published by Sony Engineering Corporation

SONY

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

This appliance is classified as a CLASS 1 LASER product. This label is located on the rear exterior.

The following caution label is located inside the apparatus.

CAUTION : INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.
ADVARSEL : USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSAETTELSE FOR STRÅLING.
VORSICHT : UNSICHTBARE LASERSTRAHLUNG. WENN ABDECKUNG GEÖFFNET UND SICHEREITSVERRIEGELUNG ÜBERBRÜCKT. NICHT DEM STRAHL AUSSETZEN.
VARO! : AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING : OSYNLING LASERSTRÅLING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.
ADVERSEL : USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES OG SIKKERHEDSLÅS BRYTES. UNNGÅ EKSPONERING FOR STRÅLEN.
VIGYAZAT! : A BURKOLAT NYITÁSAKOR LÁTHATATLAN LÉZERSUGÁRVESZÉLY! KERÜLJE A BESUGÁRZÁST!

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Notes on chip component replacement
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing
- Keep the temperature of soldering iron around 270˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

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SERVICING NOTES

[When bringing in the equipment for service]
In case of repairing, please bring the entire system set([HCD-WZ5, DXA-WZ5],except for the speaker) to the service station.

Unleaded solder
Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)

: LEAD FREE MARK
Unleaded solder has the following characteristics.
- Unleaded solder melts at a temperature about 40°C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350°C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

JIG ON REPAIRING
Please use the following extension cables at the time of repair of this set.

- Part No. J-2501-198-A (17P)
  DMB03 board CN105 — VIDEO board CN801

- Part No. J-2501-212-A (5P)
  MAIN board CN103 — MS-128 board CN001

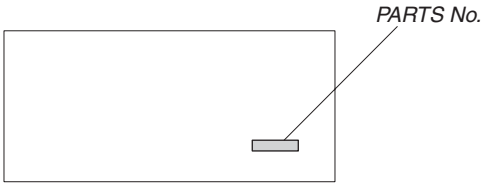
- Part No. J-2501-244-A (21P)
  DMB03 board CN107 — 4CH-VOL board CN303

NOTES ON DMB03 BOARD EXCHANGE
If a DMB03 board is exchanged, "DRIVE AUTO ADJUSTMENT" may be unable to be performed. In this case, initialize a memory in the following procedure.
1. Starting Test Mode (see page 15).
2. Press the 2 button of remote commander to set the Drive Manual Operation (see page 18).
3. Press the 6 button of remote commander to set the Memory Check (see page 20).
4. Press the [CLEAR] button of remote commander to initialize a memory.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

MODEL IDENTIFICATION
— BACK PANEL —



MODEL	PARTS No.
AEP, UK models	4-244-897-0☐
EA model	4-244-897-1☐
E3, E15 models	4-244-897-2☐
E2 model	4-244-897-3☐
AUS models	4-244-897-4☐
TH model	4-244-897-6☐
KR model	4-244-897-7☐
MY, SP models	4-244-897-8☐
RU models	4-244-897-9☐
PH model	4-247-928-0☐

- Abbreviation

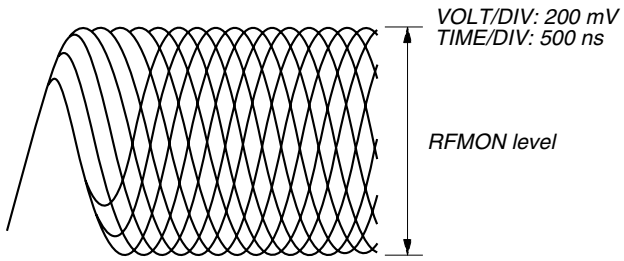
AUS	: Australian model	MY	: Malaysia model
E2	: 120V AC area in E model	PH	: Philippines model
E3	: 240V AC area in E model	RU	: Russian model
E15	: 220-240V AC area in E model	SP	: Singapore model
EA	: Saudi Arabia model	TH	: Thai model
KR	: Korean model		

AUTO SERVO ADJUSTMENT
After parts related to the servo circuit (RF amplifier (IC001), DSP (IC509), motor driver (IC501), EEPROM (IC903) so on) are replaced, re-adjusting the servo circuit is necessary. Select "ALL" at "1. DRIVE AUTO ADJUSTMENT" (Refer to page 16 in TEST MODE) and adjust DVD-SL (single layer), CD and DVD-DL (dual layer).

RFMON Level Check
Perform a RFMON level check before exchanging optical pick-up.

Measurement Point: DMB03 board CN501
13pin (RFMON) — 29pin (AGND)

RFMON signal waveform



- Standard value

	Test Disc	RFMON level Standard Value
DVD	TDV-520CSO (J-2501-236-A)	1.09 ± 0.2Vp-p
CD	LUV-P01 (4-999-032-01)	1.05 ± 0.2Vp-p

SECTION 1
GENERAL

This section is extracted from instruction manual.

List of button locations and reference pages

How to use this page

Use this page to find the location of buttons and other parts of the system that are mentioned in the text.

Illustration number
↓
TAPE A/B 3 (41, 42)
↑ Name of button/part ↑ Reference page

Main unit

ALPHABETICAL ORDER

A – J

ALBUM – 15 (14, 17, 19)
ALBUM + 14 (14, 17, 19)
CD SYNC 9 (41)
COLOR SELECT 20 (50)
Control lever 7 (11, 45)
Disc tray 25 (13)
DISPLAY 19 (39, 49, 51, 52)
Display window 24
DVD 5 (11, 12, 13, 19, 37, 41, 42)
DVD MENU 14 (16, 27)
DVD TOP MENU 15 (16)
ECHO LEVEL*1 21 (46)
EFFECT 17 (43, 45)
EQ EDIT 18 (45, 60)
GROOVE 7 (43)
Headphone jack 13

K – Z

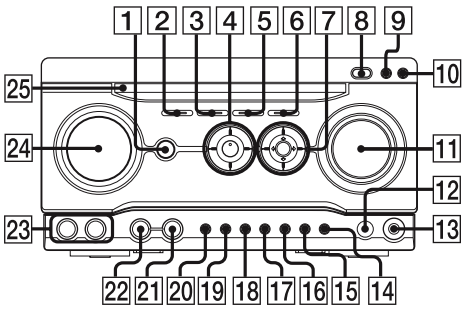
KARAOKE/MPX*2 16 (45)
MD (VIDEO) 2 (42, 55)
MIC LEVEL*2 22 (45)
Microphone jacks*2*3 23
MOVIE MODE 7 (43)
MPX*4 16 (46)
MUSIC MODE 7 (43, 45)
PUSH ENTER 7 (12, 16, 17, 18, 19, 21, 23, 26, 28, 31, 36, 45, 46, 47, 48)
Remote sensor 12
SOUND FIELD 7 (43)
TAPE A/B 3 (40, 41, 42, 46)
TUNER/BAND 6 (36, 37, 42)
VOLUME 11 (47)

BUTTON DESCRIPTIONS

I/⏻ (power) 1 (10, 37, 47, 55, 60)
❚❚ (pause) 4 (10, 14, 40)
◄► (play) 4 (14, 30, 40, 41, 46)
■ (stop) 4 (11, 14, 27, 37, 40, 41, 46, 60)
+►►►►I (fast forward/go forward) 4 (14, 36, 40)
I◄◄◄– (rewind/go back) 4 (14, 36, 40)
⏏ (open/eject) 8 (13)
● START (recording start) 10 (41, 46)

*1 Except for European, Russian and Latin American models
*2 Except for European and Russian models
*3 Microphone jacks for:
Latin American model: 1
Asian, Australian and Middle Eastern models: 2
*4 European and Russian models only

CD/DVD player/Tuner



Setting the clock

Use buttons on the remote for the operation.

1 Press I/⏻ to turn on the system.
2 Press CLOCK/TIMER SET.
3 Press ↑ or ↓ repeatedly to set the hour.
4 Press →.
5 Press ↑ or ↓ repeatedly to set the minute.
6 Press ENTER.
The clock starts working.

To adjust the clock

1 Press CLOCK/TIMER SET.
2 Press ↑ or ↓ repeatedly to select “CLOCK SET?”, then press ENTER.
3 Do the same procedures as step 3 to 6 above.

Remote control

ALPHABETICAL ORDER

A – O

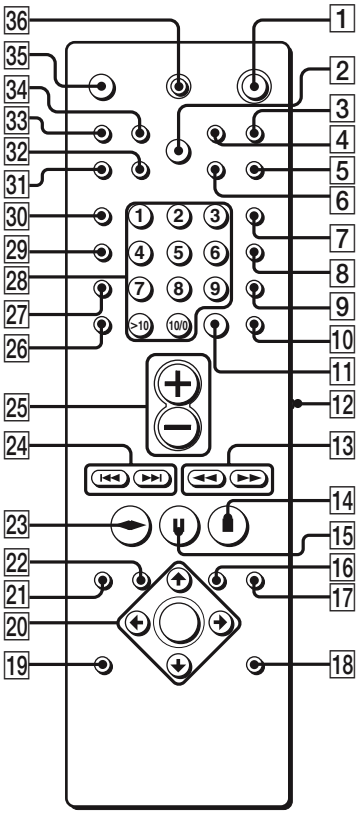
ALBUM – 21 (14, 17, 19)
ALBUM + 22 (14, 17, 19)
ANGLE 26 (26)
AUDIO 27 (23)
BAND 8 (36, 37)
CLEAR 11 (19, 20, 22)
CLOCK/TIMER SELECT 32 (48, 49)
CLOCK/TIMER SET 34 (12, 47, 48)
COMMAND MODE switch 12 (10)
DIMMER 30 (50)
DISPLAY 31 (39, 49, 51, 52)
DVD DISPLAY 16 (17, 18, 21, 23, 26, 28, 34, 52, 53)
DVD MENU 22 (16, 27)
DVD SET UP 17 (12, 15, 24, 26, 29, 31, 35, 61)
DVD TOP MENU 21 (16)
ENTER 20 (12, 16, 17, 18, 19, 21, 23, 26, 28, 31, 36, 45, 46, 47, 48)
FUNCTION 7 (12, 13, 19, 36, 37, 40, 47)
GROOVE 2 (43)
KEY CONTROL 5 (43, 46)
MOVIE MODE 18 (43)
MUSIC MODE 19 (43, 45)
Number buttons 28 (15, 16, 20, 22, 25, 26, 28)

P – Z

PLAY MODE/DIRECTION 33 (14, 19, 40, 41, 42, 46)
PRESET –/+ 24 (36, 37)
PREV/NEXT 24 (14)
REPEAT/FM MODE 6 (18, 38)
SELECT 23 (16)
SLEEP 35 (47)
SOUND FIELD 9 (43)
SUBTITLE 29 (24)
TUNER MEMORY 5 (36)
TUNING MODE 4 (36, 37)
TUNING –/+ 13 (36, 38)
TV CH –/+ 24 (10)
TV/VIDEO 3 (10)
VOL +/– 25 (10, 47)

BUTTON DESCRIPTIONS

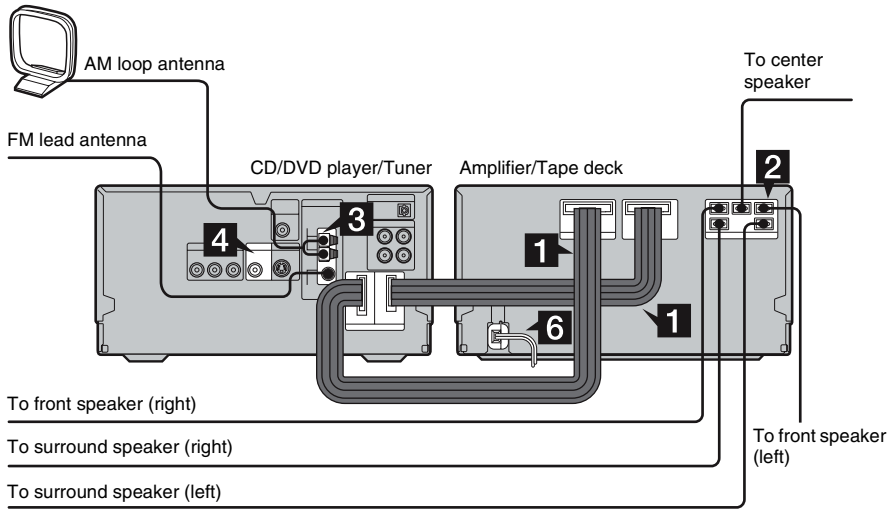
I/⏻ (power) 1 (10, 47)
◀◀/▶▶ (rewind/fast forward) 13 (14, 36, 40)
SLOW ◀I/I▶ 13 (14)
I◀◀/▶▶I (go back/go forward) 24 (14, 36, 40)
◀▶ (play) 23 (14, 30, 40, 41, 46)
II (pause) 15 (14, 40)
■ (stop) 14 (14, 40, 41, 46)
↑/↓/←/→ 20 (12, 16, 23, 28, 33, 47)
↩ RETURN 10 (16, 28)
TV I/⏻ 36 (10)



Getting Started

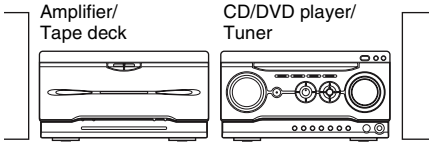
Hooking up the system

Perform the following procedures 1 to 7 to hook up your system using the supplied cords and accessories. European model is used for illustration purpose.



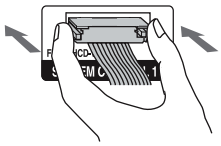
Preparation

Place the components as shown below.



1 Connect the system control cables to the SYSTEM CONTROL connectors on the tape deck.

Connect to the same numbered jack in the order indicated on the rear panel.



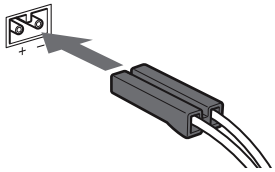
Note

The system cable is used to send signals and electricity between the components for interlinked operation.

Be sure to insert the connector horizontally until it clicks into place. Otherwise the system will not operate correctly.

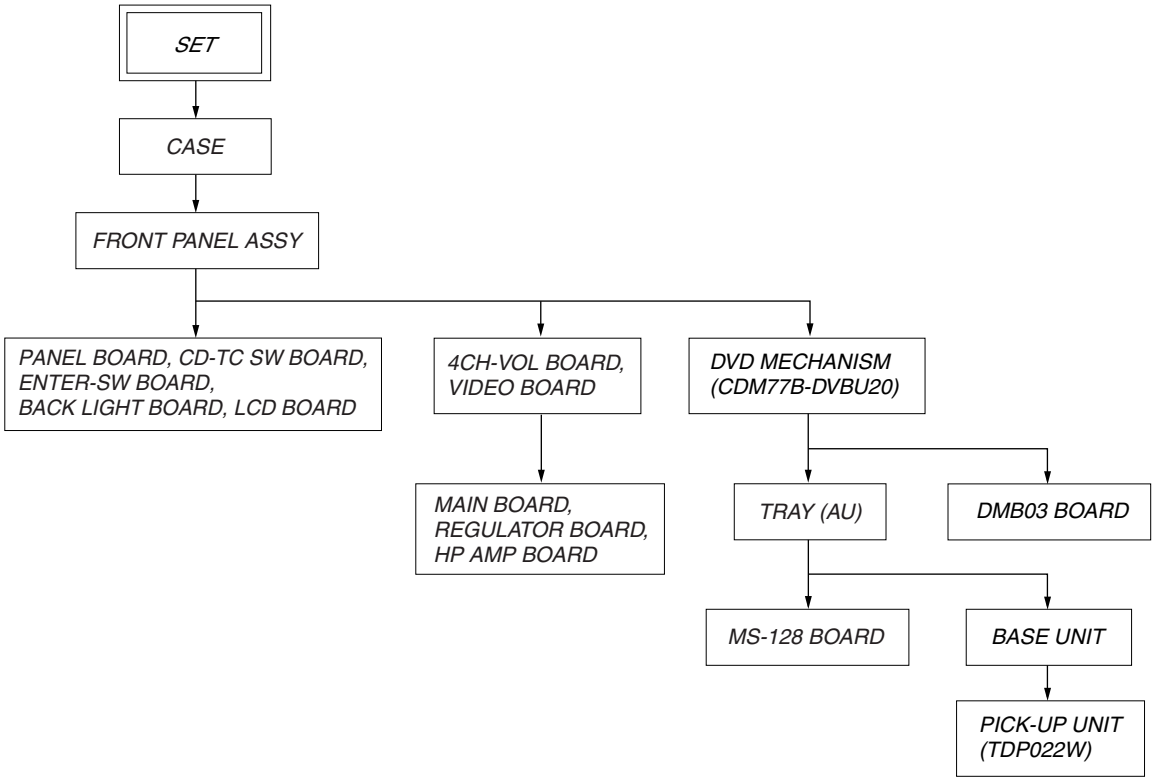
2 Connect the speakers.

Be sure to match the appropriate speaker cords from the speaker terminals to the corresponding SPEAKER terminals on the tape deck.



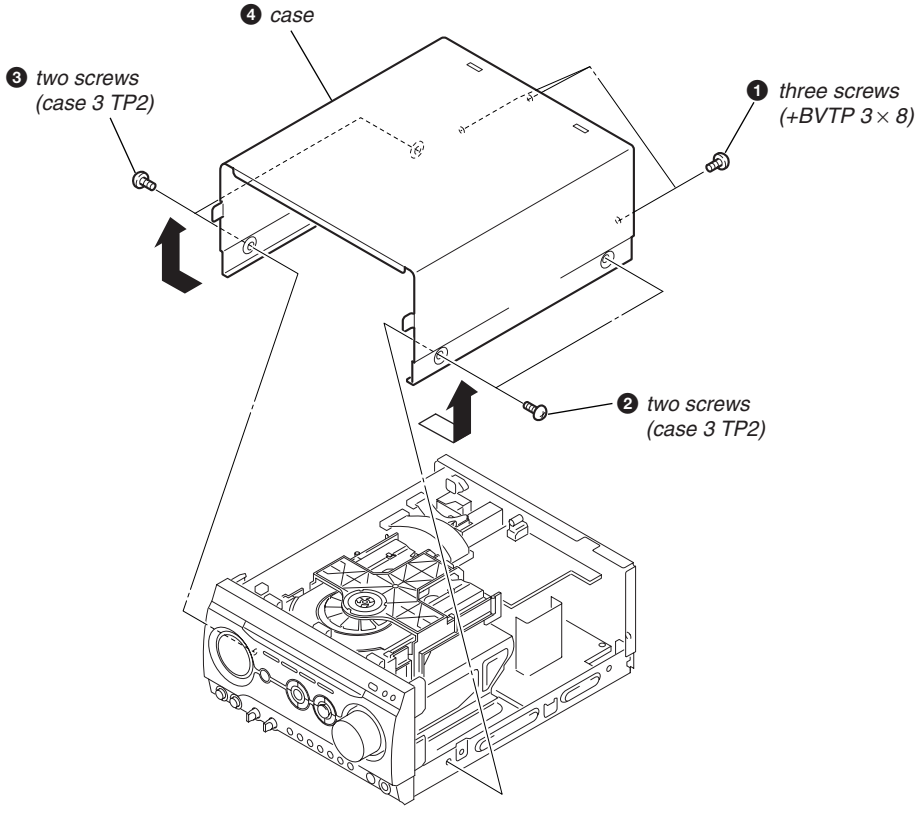
SECTION 2
DISASSEMBLY

• The equipment can be removed using the following procedure.

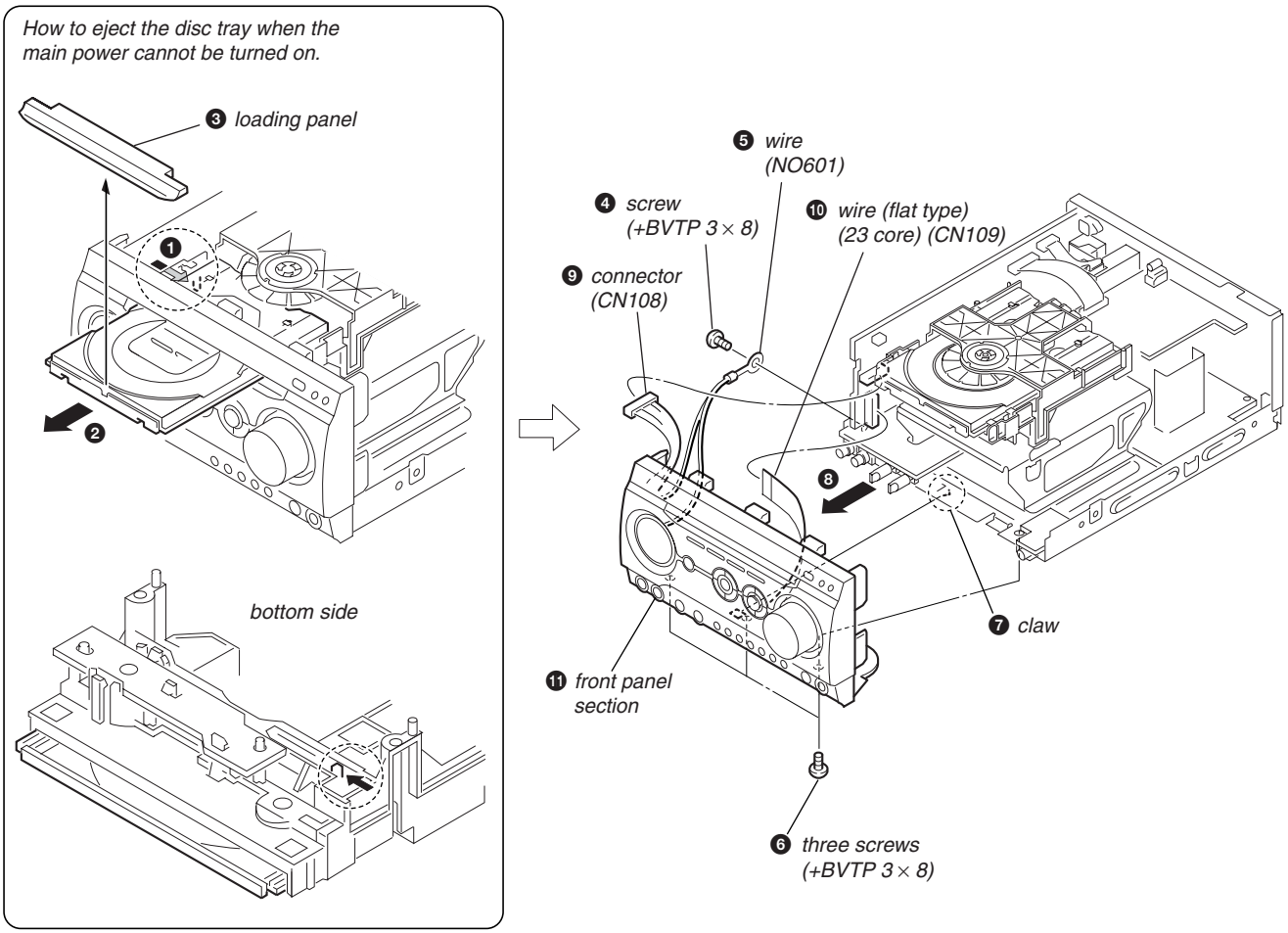


Note : Follow the disassembly procedure in the numerical order given.

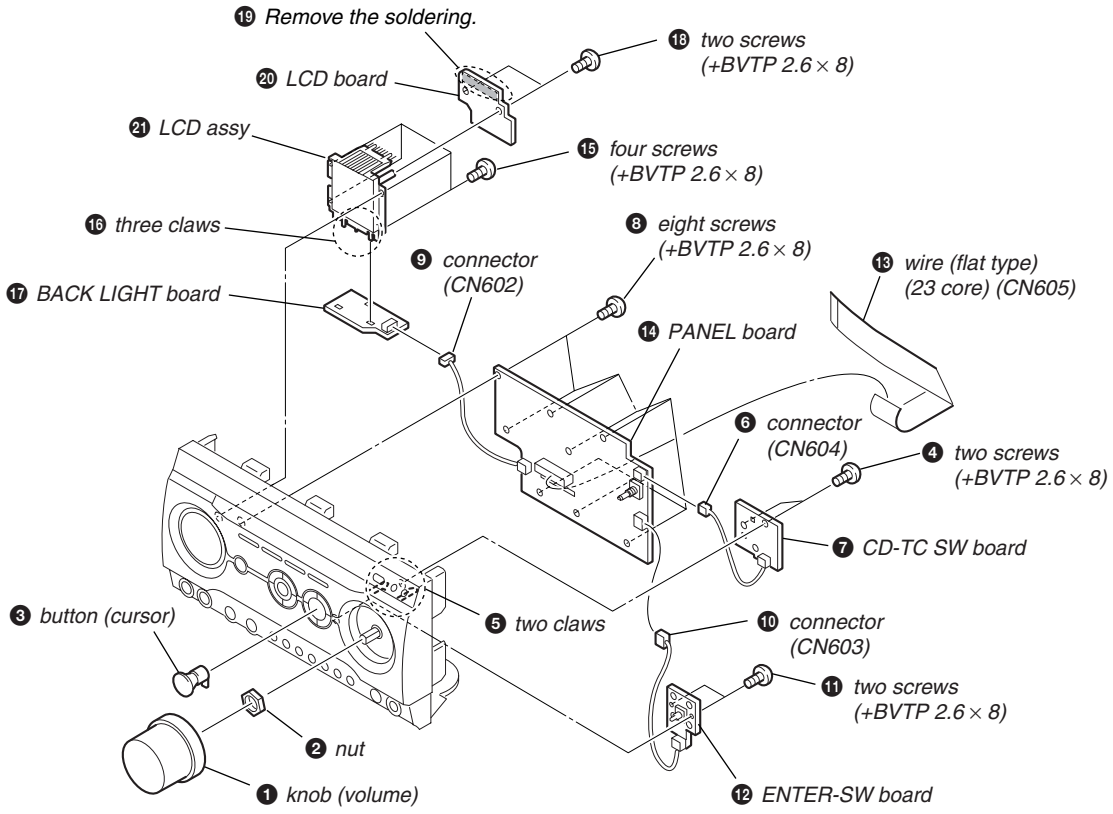
2-1. Case



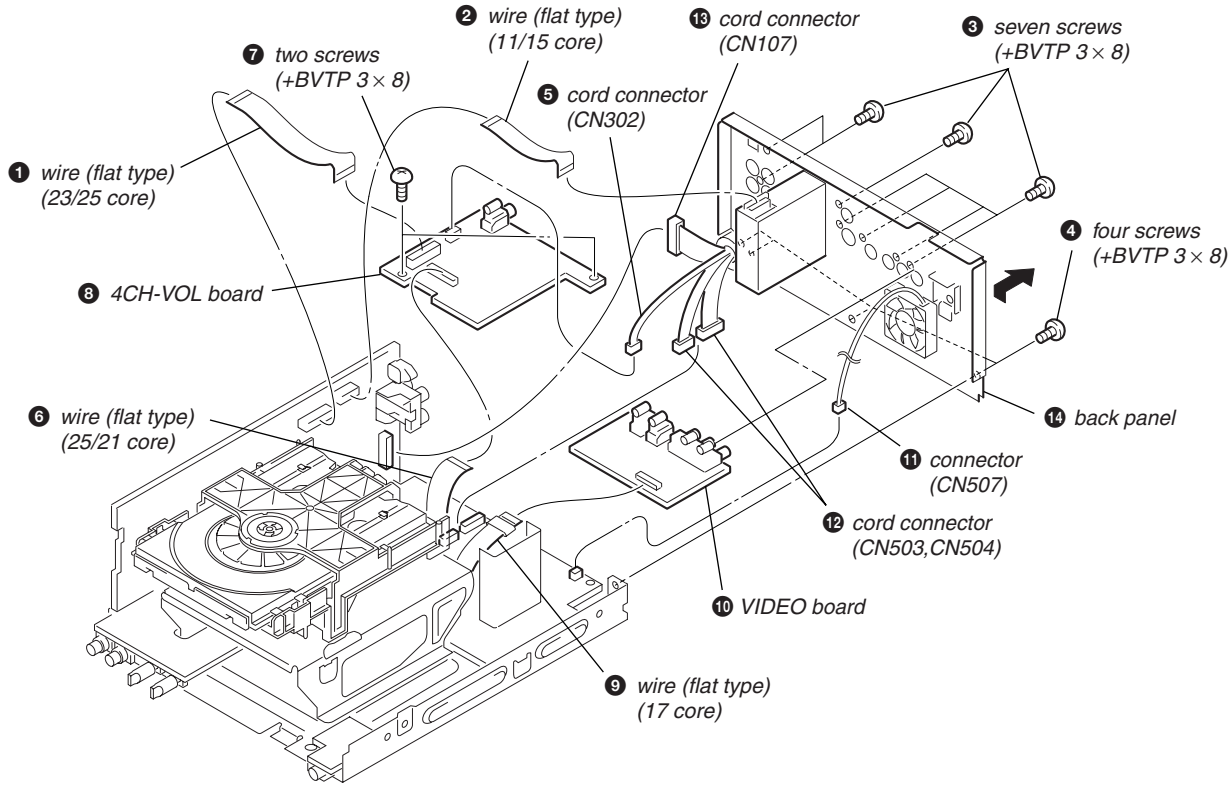
2-2. Front Panel Assy


How to eject the disc tray when the main power cannot be turned on.
❸ loading panel
❶
❷
bottom side
❺ wire (NO601)
❹ screw (+BVTP 3 × 8)
❿ wire (flat type) (23 core) (CN109)
❾ connector (CN108)
❽
❼ claw
⓫ front panel section
❻ three screws (+BVTP 3 × 8)

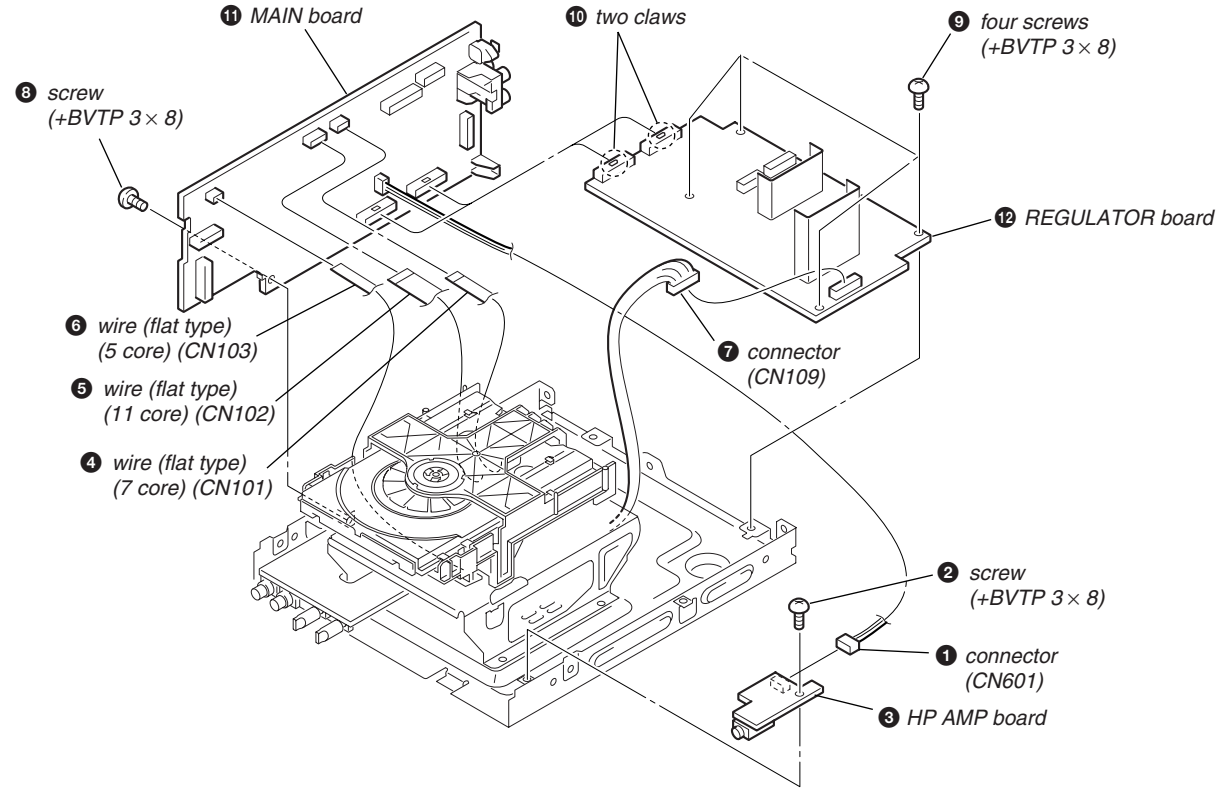
2-3. PANEL Board, CD-TC-SW Board, ENTER-SW Board, BACK LIGHT Board, LCD Board


⓳ Remove the soldering.
⓲ two screws (+BVTP 2.6 × 8)
⓴ LCD board
㉑ LCD assy
⓯ four screws (+BVTP 2.6 × 8)
⓰ three claws
❽ eight screws (+BVTP 2.6 × 8)
❾ connector (CN602)
⓭ wire (flat type) (23 core) (CN605)
⓱ BACK LIGHT board
⓮ PANEL board
❻ connector (CN604)
❹ two screws (+BVTP 2.6 × 8)
❼ CD-TC SW board
❸ button (cursor)
❺ two claws
❿ connector (CN603)
⓫ two screws (+BVTP 2.6 × 8)
❷ nut
❶ knob (volume)
⓬ ENTER-SW board

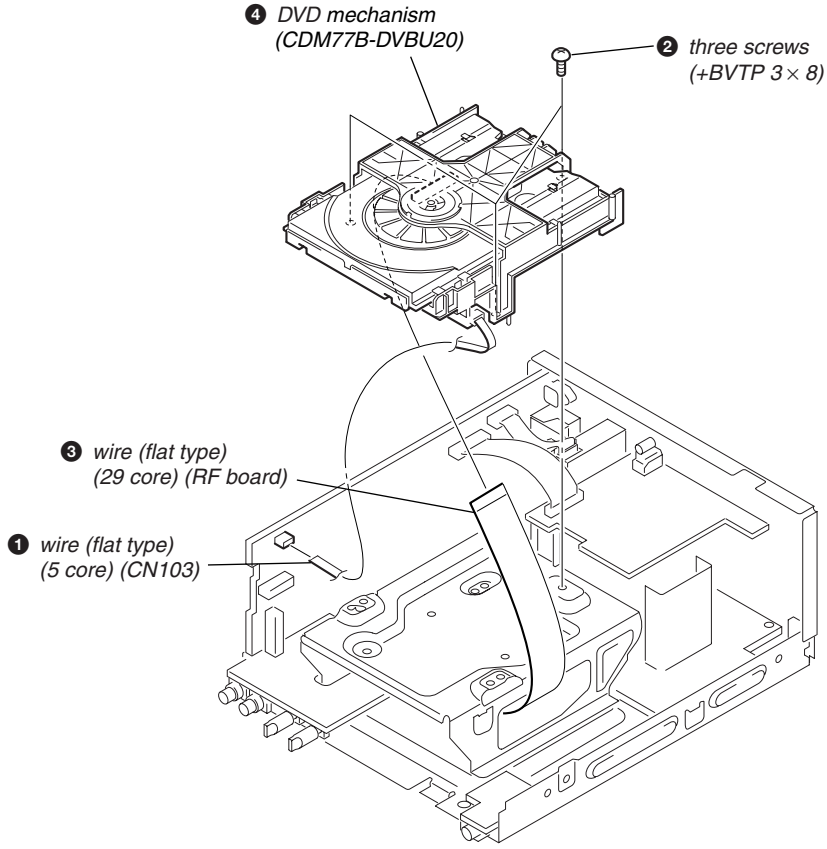
2-4. 4CH-VOL Board, VIDEO Board


❷ wire (flat type) (11/15 core)
⓭ cord connector (CN107)
❸ seven screws (+BVTP 3× 8)
❼ two screws (+BVTP 3× 8)
❺ cord connector (CN302)
❶ wire (flat type) (23/25 core)
❹ four screws (+BVTP 3× 8)
❽ 4CH-VOL board
❻ wire (flat type) (25/21 core)
⓮ back panel
⓫ connector (CN507)
⓬ cord connector (CN503,CN504)
❿ VIDEO board
❾ wire (flat type) (17 core)

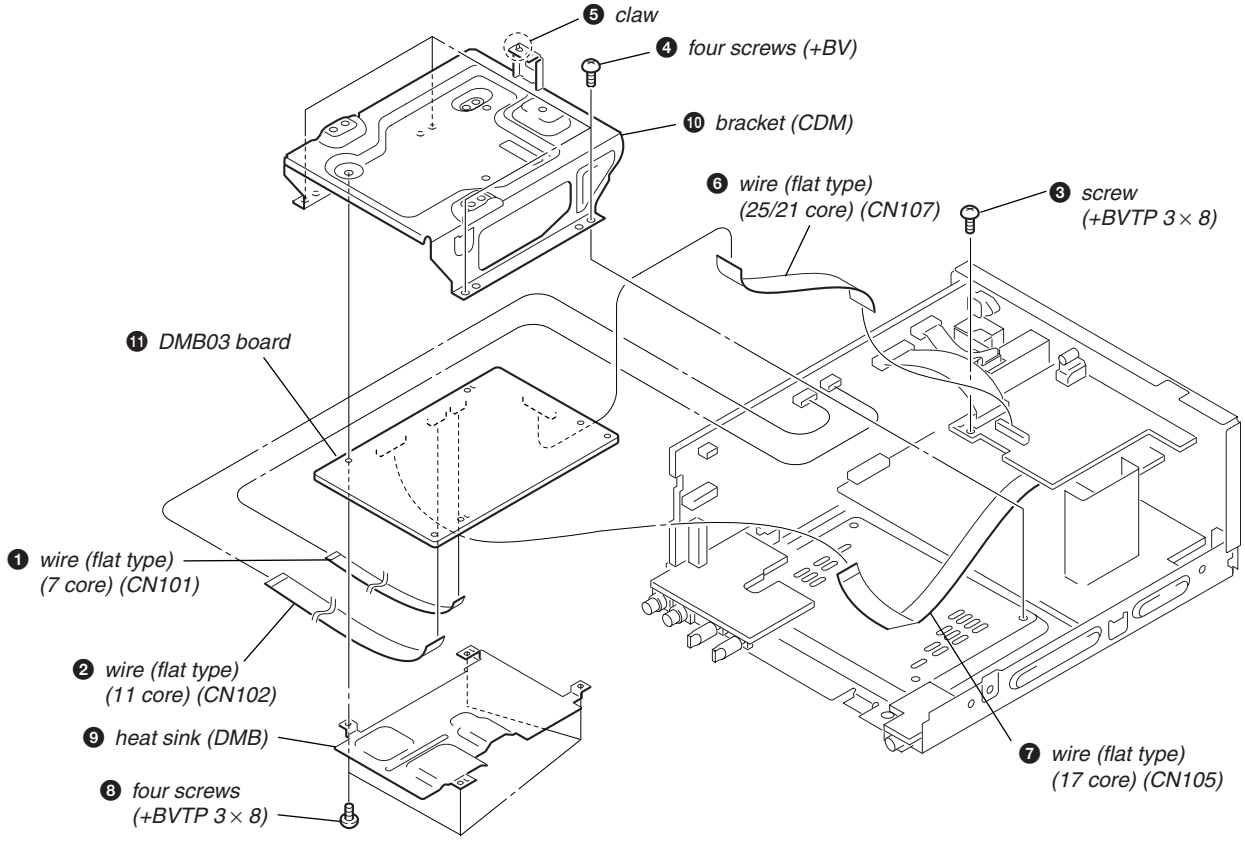
2-5. MAIN Board, REGULATOR Board, HP AMP Board


⓫ MAIN board
❿ two claws
❾ four screws (+BVTP 3× 8)
❽ screw (+BVTP 3× 8)
⓬ REGULATOR board
❻ wire (flat type) (5 core) (CN103)
❼ connector (CN109)
❺ wire (flat type) (11 core) (CN102)
❹ wire (flat type) (7 core) (CN101)
❷ screw (+BVTP 3× 8)
❶ connector (CN601)
❸ HP AMP board

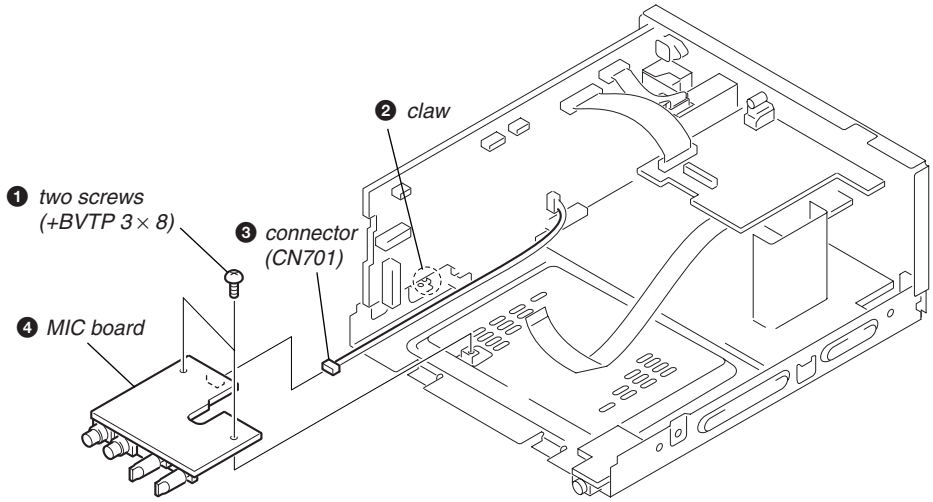
2-6. DVD Mechanism (CDM77A-DVBU20)



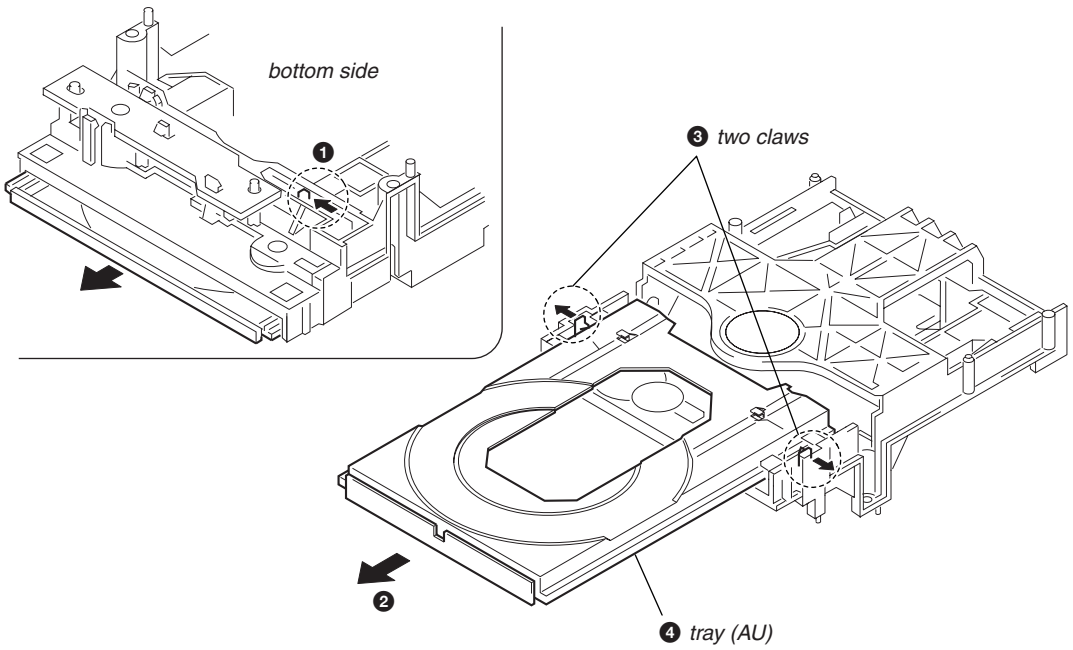
2-7. DMB03 Board


❺ claw
❹ four screws (+BV)
❿ bracket (CDM)
❻ wire (flat type) (25/21 core) (CN107)
❸ screw (+BVTP 3× 8)
⓫ DMB03 board
❶ wire (flat type) (7 core) (CN101)
❷ wire (flat type) (11 core) (CN102)
❾ heat sink (DMB)
❽ four screws (+BVTP 3× 8)
❼ wire (flat type) (17 core) (CN105)

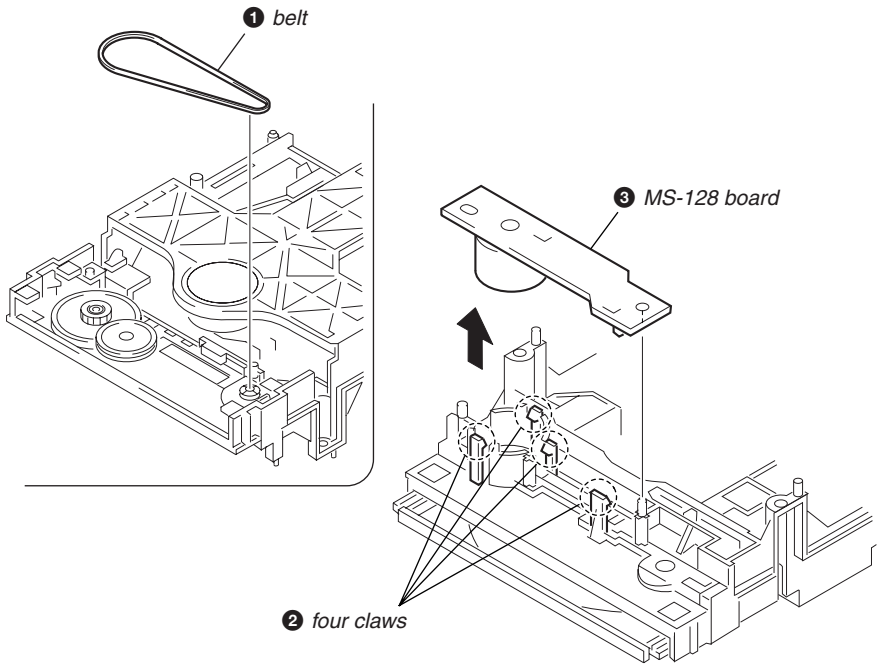
2-8. MIC Board



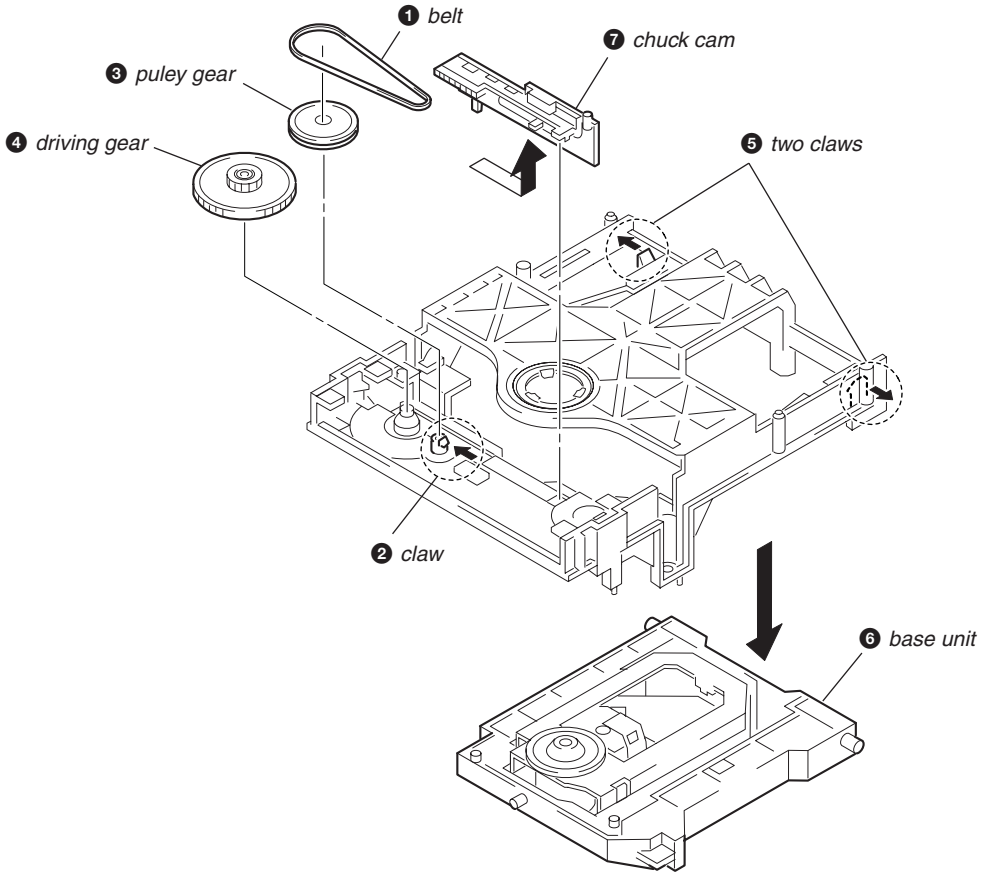
2-9. Tray (AU)



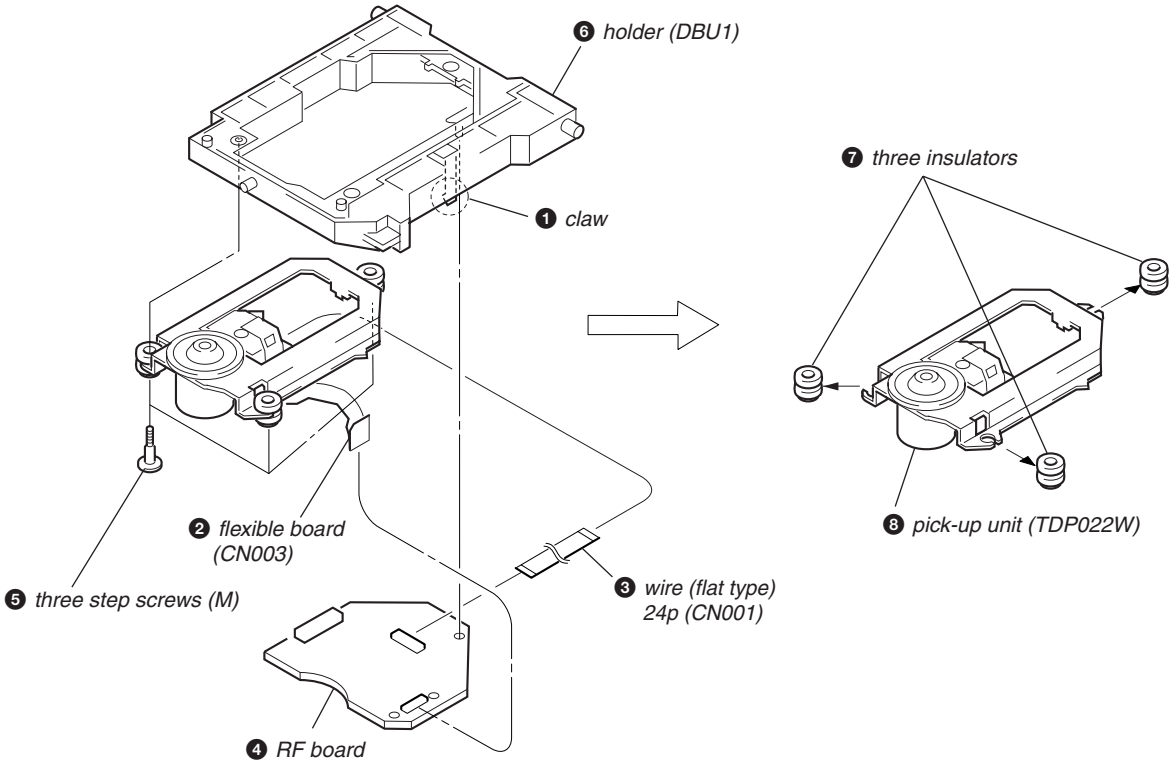
2-10. MS-128 Board



2-11. Base Unit



2-12. Pick-up Unit (TDP022W)



SECTION 3
TEST MODE

[Cold Reset]

• The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customer.

Procedure:

1. Press three buttons ■ , EQ EDIT and I/⏻ simultaneously.
2. The liquid crystal display does not display any message and the set is reset.

[MD/VIDEO Function Selection Mode]

• This mode is used to select the function of MD or VIDEO.

Procedure:

1. Press the I/⏻ button to turn the set on.
2. Press the MD(VIDEO) and I/⏻ buttons simultaneously.
3. The function will change from MD to VIDEO, and "VIDEO" is displayed.
4. To change change back to MD , repeat the same procedure.

[AM Channel Step 9 kHz/10kHz Selection Mode]

• Either the 9 kHz step or 10 kHz step can be selected for the AM channel step.

Procedure:

1. Set the function to AM.
2. Turn off the main power.
3. While depressing the ■ button, press the I/⏻ button to turn on the main power.
4. "AM 9k Step" or "AM 10k Step" is displayed and the channel step is changed over.

* For E model only

[DVD Ship Mode (without Cold Reset)]

• This mode moves the optical pick-up to the position durable to vibration. Use this mode when returning the set to the customer after repair.

Procedure:

1. Press the I/⏻ button to turn the set on.
2. Set the function to DVD.
3. Press the ■ button and the ⬆ (Control lever) button simultaneously.
4. After the "STANDBY" display blinks six times, the message "LOCK" is displayed on the liquid crystal display, and the DVD ship mode is set.

[DVD Ship Mode (without Cold Reset)]

• This mode is used to perform the DVD Ship Mode with Cold Reset.

Procedure:

1. Press the I/⏻ button to turn the set on.
2. Set the function to DVD.
3. Press three buttons ■ , ● START (REC PAUSE) and I◀◀ ◀◀ – simultaneously.
4. After the "STANDBY" display blinks six times, the message "LOCK" is displayed on the liquid crystal display, and the DVD ship mode is set.

[Color System Selection]

* Color system can be changed to PAL or NTSC.

Procedure:

1. Turn off the main power.
2. Press two buttons ❚❚ and I/⏻ simultaneously.
   "COLOR PAL" is displayed and the color system is changed to PAL. The set is powered on and the function is set to DVD.
3. To change the color system to NTSC, turn off the main power.
4. Press two buttons ❚❚ and I/⏻ simultaneously.
   "COLOR NTSC" is displayed and the color system is changed to NTSC. The set is powered on and the function is set to DVD.

[Disc Tray Lock]

• The disc tray lock function for the antitheft of an demonstration disc in the store is equipped.

Setting Procedure :

1. Press the I/⏻ button to turn the set on.
2. Set the function to DVD.
3. Press two buttons of ■ and ⏏ simultaneously for five seconds.
4. The message "LOCKED" is displayed and the tray is locked.

Releasing Procedure :

1. Press two buttons of ■ and ⏏ simultaneously for five seconds again.
2. The message "UNLOCKED" is displayed and the tray is unlocked.

Note : When "LOCKED" is displayed, the tray lock is not released by turning power on/off with the I/⏻ button.

[MC Test Mode]

* This mode is used to check operations of the amplifier and tape deck.

Procedure:

1. Press the I/⏻ button to turn the set on.
2. Press three buttons ■ , ● START (REC PAUSE) and MUSIC MODE simultaneously.
3. "MD" is displayed and dotted lines blink.
4. Every pressing the EQ EDIT button changes the displays in the order of "GEQ MIN" → "GEQ FLAT" → "GEQ MAX"
5. When the VOLUME control knob is turned clockwise even slightly, the sound volume increases to its maximum and the message "VOLUME MAX" appears for two seconds, the display returns to the original display.
6. When the VOLUME control knob is turned counterclockwise even slightly, the sound volume decreases to its minimum and the message "VOLUME MIN" appears for two seconds, the display returns to the original display.
7. When a tape is inserted in Deck B and by pressing the ● START (REC PAUSE) button recording is started, the input source function selects MD automatically.
8. During the recording by pressing the I◀◀ ◀◀ – button, the TAPE A/B is selected and tape is rewound. Tape stops at around the record-starting position and playback of the recorded portion of the tape is started.
9. Press the I/⏻ button to turn the set off.

[GC Test Mode]

• This mode is used to check the software version, key board, VACS level, liquid crystal display and LEDs.

Procedure:

1. Press three buttons ■ , ● START (REC PAUSE) and TUNER/BAND simultaneously.
2. Segments of the liquid crystal display and LEDs are all turned on.
3. To enter the software version display mode, press the I◀◀ ◀◀ – button. The model name and destination are displayed.
4. Each time the I◀◀ ◀◀ – button is pressed, the display changes in the following order. MC, GC, CD, CDD, CDMA, CDMB, BDA, BDB, ST, TA, TM, TC and MD. Each time the + ▶▶ ▶▶I button is pressed, the contents of the version display change.
5. Press the ◁I▷ button, and the key check mode is activated.
6. In the key check mode, "K 0 V 0" is displayed. Each time a button is pressed, "K 0" value increases. However, once a button is pressed, it is no longer taken into account. "V 0" value increases like 1, 2, 3 ... if rotaing the VOLUME knob clockwise, or it decreases like 0, 9, 8 ... if rotating couterclockwise.
7. To exit from this mode, press three buttons in the same manner as step 1, or disconnect the power cord.

¥ VACS Level Display Mode

Procedure:

1. Press three buttons [x] , [z START] (REC PAUSE) and [TUNER/BAND] simultaneously.
2. Press the [X] button. The VACS level "VACS 0+0" is displayed.
3. To exit from this mode, press three buttons in the same manner as step 1, or disconnect the power cord.

¥ Display Check

Procedure:

1. Press three buttons [x] , [z START] (REC PAUSE) and [TUNER/BAND] simultaneously.
2. Press the [x] button and the display changes. Each time the [x] button is pressed, the pattern of segments changes.
3. To exit from this mode, press three buttons in the same manner as step 1, or disconnect the power cord.

[VACS ON/OFF Mode]

• This mode is used to switch on and off the VACS (Variable Attenuation Control System).

Procedure:

1. Press the [?/1] button to turn the set on.
2. To enter the test mode, press three buttons [x], [z START] (REC PAUSE) and [MOVIE MODE] simultaneously.
3. The message "VACS OFF" or "VACS ON" appears.

[TEST DISC LIST]

Use the following test disc on test mode.

TDV-520CSO (DVD-SL): PART No. J-2501-236-A
LUV-P01 (CD): PART No. 4-999-032-01
TDV-540C (DVD-DL): PART No. J-2501-235-A

Note: Do not use exiting test disc for DVD.

[DVD OSD Test Mode]

[GENERAL DESCRIPTION]

The Test Mode allows you to make diagnosis and adjustment easily using the remote commander and monitor TV. The instructions, diagnostic results, etc. are given on the on-screen display (OSD).

[STARTING TEST MODE]

1. Press the [+/1] button to turn the power on, and set the function to DVD.
2. While pressing the [x] and [Z] button, turn the [VOLUME] knob clockwise to enter the test mode.
3. It displays “SERVICE IN” on the liquid crystal display, and displays the Test Mode Menu on the monitor screen as follows. (At the bottom of the menu screen, the model name and revision number are displayed)

```
          Test Mode Menu

0. Syscon Diagnosis
1. Drive Auto Adjustment
2. Drive Manual Operation
3. Mecha Aging
4. Emergency History
5. Mecha Error History
6. Version Information
7. Video Level Adjustment
                    Exit: POWER Key
Model    :MHC-WZ8D_6D xx
Revision :x.xx
```

4. To execute each function, select the desired menu and press its number on the remote commander [COMMAND MODE] (RM-SWZ8D).
5. To release from test mode, press the [+/1] button and turn the power off.

[OPERATING TEST MODE]

0. SYSCON DIAGNOSIS

The same contents as board detail check by serial interface can be checked from the remote commander operation.
On the Test Mode Menu screen, press [10/0] key on the remote commander, and the following Check Menu will be displayed.

```
      ### Syscon Diagnosis ###

            Check Menu
0. Quit
1. All
2. Version
3. EEPROM
4. GPIO
5. SD Bus
6. Video
```

0-0. Quit

Quit the Syscon Diagnosis and return to the Test Mode Menu.

0-1. All (All items continuous check)

This menu checks all diagnostic items continuously. Normally, all items are checked successively one after another automatically unless an error is found, but at a certain item that requires judgment through a visual check to the result, the following screen is displayed for the key entry.

• *Example display*

```
      ### Syscon Diagnosis ###

           Diag All Check
            No.2 Version

         2-3. ROM Check Sum
Check Sum = xxxx




Press NEXT Key to Continue
Press PREV Key to Repeat
```

For the ROM Check, the check sum calculated by the Syscon is output, and therefore you must compare it with the specified value for confirmation.
Following the message, press the [NEXT ▶▶I] button to go to the next item, or press the [I◀◀ PREV] button to repeat the same operation again.
To quit the diagnosis and return to Check Menu screen, press the [RETURN] key on the remote commander to display Check Menu.

• Error occurred
If an error occurred, the diagnosis is suspended and error is displayed. Press the [RETURN] key on the remote commander to quit the diagnosis, or press the [I◀◀ PREV] button to repeat the same check where an error occurred, or press the [NEXT▶▶I] button to continue the check from the item next to faulty item.

General Description of Checking Method

Selecting 2 and subsequent items calls the submenu screen of each item. And selecting 2 and subsequent items executes respective menus and outputs the results.
For the contents of each submenu, see "Check Items List" as below.

Check Items List:

- 0-2. Version
  - 0-2-1. All
  - 0-2-2. Revision
  - 0-2-3. ROM Check Sum
  - 0-2-4. Model Type
  - 0-2-5. Region
- 0-3. EEPROM Check
  - 0-3-1. Sampling Check
  - 0-3-2. Detail Check
- 0-4. GP I/O Check
- 0-5. SD Bus Check
- 0-6. Video Check

0-2. Version

0-2-2. Revision
The revision number of ROM (IC206) that the program for the DVD system processor (IC207) is stored.

0-2-3. ROM Check Sum
Check sum is calculated.
(4 digits hexadecimal number)

0-2-4. Model Type
Model name is displayed. (MHC-WZ8D)

0-2-5. Region
Model destination code is displayed. (2 digits number)

0-3. EEPROM Check

0-3-1. Sampling Check
EEPROM check at every 64 words.
It compares read data with write data of each address. When there are discrepancies between two data, it displays error.

0-3-2. Detail Check
EEPROM check at every 1 word.
It compares read data with write data of each address. When there are discrepancies between two data, it displays error.

0-4. GP I/O Check

Pull up/down setting check of the DVD system processor (IC207) pin 150, 151 and 154 (for clock setting port).

0-5. SD Bus Check

SD bus data check between DVD decoder (IC701) and D-RAM (IC706).

0-6. Video Check

Output the color bars for video level adjustment.

1. DRIVE AUTO ADJUSTMENT

On the Test Mode Menu screen, press the [1] key on the remote commander, and the Adjustment Menu will be displayed.

```
    ## Drive Auto Adjustment ##
          Adjustment Menu

  0. ALL
  1. DVD-SL
  2. CD
  3. DVD-DL




                        Exit: RETURN
```

Normally, [10/0] is selected to adjust DVD (single layer), CD and DVD (dual layer) in this order. But, individual items can be adjusted for the case where adjustment is suspended due to an error. In this mode, the adjustment can be made easily through the operation following the message displayed on the screen.
The disc used for adjustment must be the one specified for adjustment.

1-0. ALL

Press the [10/0] key on the remote commander, and the servo set data in EEPROM will be initialized. Then, 1. DVD-SL disc, 2. CD disc and 3. DVD-DL disc are adjusted in this order.
Each time one disc was adjusted, it is ejected. Replace it with the specified disc following the message. You can finish the adjustment by pressing the [RETURN] button on the remote commander.

Note: During adjustment of each disc, the measurement for disc type judgment is made. As automatic adjustment does not judge the disc type unlike conventional models, take care not to insert wrong type discs. Also, do not give a shock during adjustment.

1-1. DVD-SL (single layer)

Press the [1] key on the remote commander and insert a DVD single layer disc following the message. Then the adjustment will be made through the steps below, then adjusted values will be written to the EEPROM.

DVD Single Layer Disc Adjustment Steps:

1. Sled tilt reset
2. Disc check memory SL
3. Wait 300 msec
4. Set disc type SL
5. LD on
6. Spindle start
7. Wait 1 sec
8. Focus servo on 0
9. Auto track offset adjust
10. CLVA on
11. Wait 500 msec
12. Tracking on
13. Wait 1 sec
14. Sled on
15. Check CLV on
16. Auto LFO adjust
17. Auto focus offset adjust
18. Auto tilt position adjust
19. Auto focus gain adjust
20. Auto focus offset adjust
21. EQ boost adjust
22. Auto loop filter offset adjust
23. Auto track gain adjust

Search Check

24. 32 track jump forward
25. 32 track jump reverse
26. 500 track jump forward
27. 500 track jump reverse

28.All servo stop

29.EEP copy loop filter offset

1-2. CD

Press the [2] key on the remote commander and insert a CD disc following the message. Then the adjustment will be made through the steps below, then adjusted values will be written to the EEPROM.

CD Adjustment Steps

1. Sled tilt rest
2. Disc check memory CD
3. Wait 500 msec
4. Set disc type CD
5. LD on
6. Spindle start
7. Wait 500 msec
8. Focus servo on 0
9. Auto track offset adjust
10. CLVA on
11. Wait 500 msec
12. Tracking on
13. (TC display start)
14. Wait 1 sec
15. Jitter display start
16. Sled ON
17. Check CLV on
18. Auto loop filter offset adjust
19. Auto focus offset adjust
20. Auto focus gain adjust
21. Auto focus offset adjust
22. EQ boost adjust
23. Auto LFO Adjust
24. Auto track gain adjust

Search Check

25. 32Tj forward
26. 32Tj reverse
27. 500Tj forward
28. 500Tj reverse

29. All servo stop

1-3. DVD-DL (dual layer)

Press the [3] key on the remote commander and insert a DVD dual layer disc following the message. Then the adjustment will be made through the steps below, then adjusted values will be written to the EEPROM.

DVD Dual Layer Disc Adjustment Steps:

1. Sled tilt reset
2. Disc check memory DL
3. Wait 500 msec
4. Set disc type DL
5. LD on
6. Spindle start
7. Wait 1 sec

Layer 1 Adjust

8. Focus servo on 0
9. Auto track offset adjust
10. CLVA on
11. Wait 500 msec
12. Tracking on
13. Wait 500 msec
14. Sled on
15. Check CLV lock
16. Auto loop filter offset adjust, Auto focus adjust
17. Auto focus gain adjust
18. Auto focus offset adjust
19. EQ boost adjust
20. Auto loop filter offset adjust
21. Auto Track Gain Adjust

Search Check

22. 32 track jump forward
23. 32 track jump reverse
24. 500 track jump forward
25. 500 track jump reverse

Layer 0 Adjust

26. Focus jump (L1 → L0)
27. Auto track offset adjust L0
28. CLVA on
29. Wait 500 msec
30. Tracking on
31. Wait 500 msec
32. Sled on
33. Check CLV lock
34. Auto focus filter offset adjust
35. Auto Focus Adjust
36. Auto focus gain adjust
37. Auto focus offset adjust
38. EQ boost adjust
39. Auto Loop Filter Offset
40. Auto track gain adjust

Search Check

41. 32 track jump forward
42. 32 track jump reverse
43. 500 track jump forward
44. 500 track jump reverse

Layer Jump Check

45. Layer jump (L0 ? L1)
46. Layer jump (L1 ? L0)

47. All servo stop

2. DRIVE MANUAL OPERATION

Note: This mode is used for design, and not used in service fundamentally.

On the Test Mode Menu screen, press the [2] key on the remote commander, and the Operation Menu will be displayed. For the manual operation, each servo on/off control and adjustment can be executed manually.

```
   ## Drive Manual Operation ##
          Operation Menu
1. Disc Type
2. Servo Control
3. Track/Layer Jump
4. Non EEPROM Write Adjust
5. EEPROM Write Adjust
6. Memory Check
7. Disc Check Memory
8. Error Rate Display
9. SACD Water Mark

                        Exit: RETURN
```

In using the manual operation menu, take care of the following points. These commands do not provide protection, thus requiring correct operation. The sector address or time code field is displayed when a disc is loaded.

Note:
1. Set correctly the disc type to be used on the Disc Type screen.
2. In case of an alarm, immediately press the [■] button to stop the servo operation, and press the [I/⏻] button to turn the power off.

Basic operation:
(controllable from front panel or remote commander)

[I/⏻]	: Power OFF (release the Test Mode)
[■]	: Servo stop
[⏏]	: Stop and eject/Loading
[RETURN]	: Return to Operation Menu or Test Mode Menu
[I◀◀ PREV], [NEXT▶▶I]	: Transition between sub modes of menu
[1] to [9], [10/0]	: Selection of menu items
Cursor [↓]/[↑]	: Increase/Decrease in manually adjusted value

2-1. Disc Type

```
                Disc Type

            Disc Type Select

  1. Disc Type Auto Check
  2. Set Disc Type DVD
  3. Set Disc Type CD
  4. Set Disc Type Hybrid




                           Exit: RETURN
```

2-1-1. Disc Type Auto Check

1) Press the [1] key on the remote commander to display the Disc Type Auto Check screen.
2) Insert a disc and press the [ENTER] key on the remote commander.
3) It judges the type of inserted disc automatically and displays the disc type and so on as below.

```
          Disc Type Auto Check

  Disc Type     xx
  Layer         xx
  Mirr Time     xx
  Mirr Count    xx
  FZC Count     xx
  PI Reference  xx
  PI Peak       xx

  ENTER.Execute

                           Exit: RETURN
```

Disc Type : CD, DVD or Hybrid (SACD)
Layer : SINGLE, DUAL or HYBRID
Mirr Time : Mirror time of between disc surface and record surface when disc type judgment. (hexadecimal number)
Mirr Count : The number of times which mirror counts between disc surface and record surface when disc type judging.
FZC Count : The number of times which focus zero cross points of each layer when lens down.
PI Reference : The average of PI reference voltage. (hexadecimal number)
PI Peak : PI peak level voltage. It performs only when disc type judgment is successful. (hexadecimal number)

2-1-2. Disc Type DVD

It sets up so that it may judge as a disc type of specification of the disc with which the set was inserted.

[1]: DVD single layer disc (12 cm)
[2]: DVD dual layer disc (0 layer, 12 cm)
[3]: DVD dual layer disc (1 layer, 12 cm)
[4]: DVD-RW disc (12 cm)
[5]: DVD single layer disc (8 cm)
[6]: DVD dual layer disc (0 layer, 8 cm)
[7]: DVD dual layer disc (1 layer, 8 cm)
[8]: DVD-RW disc (8 cm)

2-1-3. Disc Type CD

It sets up so that it may judge as a disc type of specification of the disc with which the set was inserted.

[1]: CD disc (normal speed, 12 cm)
[2]: CD disc (double speed, 12 cm)
[3]: CD disc (normal speed, 8 cm)
[4]: CD disc (double speed, 8 cm)
[5]: CD-RW disc (normal speed, 12 cm)
[6]: CD-RW disc (double speed, 12 cm)
[7]: CD-RW disc (normal speed, 8 cm)
[8]: CD-RW disc (double speed, 8 cm)

2-1-4. Disc Type Hybrid

It sets up so that it may judge as a disc type of specification of the disc with which the set was inserted.

[1]: SACD Hybrid disc (SACD layer, 12 cm)
[2]: SACD Hybrid disc (CD layer, normal speed, 12 cm)
[3]: SACD Hybrid disc (CD layer, double speed, 12 cm)
[4]: SACD Hybrid disc (SACD layer, 8 cm)
[5]: SACD Hybrid disc (CD layer, normal speed, 8 cm)
[6]: SACD Hybrid disc (CD layer, double speed, 8 cm)

2-2. Servo Control

Note: Be sure to perform the disc type setup before performing this item.

```
          Servo Control
1.LD          off R.Sled FWD
2.Focus       off L.Sled REV
3.SPDL        off U.Sled Reset
4.CLVA        off D.Sled Limit
5.Trk.        off
6.Sled        off
7.Fcs.Srch    off


0.All Servo Off

                      Exit: RETURN
```

On this screen, the servo on/off control necessary for replay is executed. Normally, turn on each servo from 1 sequentially and when CLVA is turned on, the usual trace mode becomes active. In the trace mode, DVD sector address or CD time code is displayed. This is not displayed where the spindle is not locked.
The spindle could run overriding the control if the spindle system is faulty or RF is not present. In such a case, do not operate CLVA.

[1] LD : Turn on/off the laser.
[2] Focus : Search the focus and turn on the focus.
[3] SPDL : Turn on/off the spindle.
[4] CLVA : Turn on/off normal servo of spindle servo.
[5] Trk. : Turn on/off the tracking servo.
[6] Sled : Turn on/off the sled servo.
[7] FCS. Srch : Turn on/off the focus search.
[10/0] : All servo off.
[R] Sled FWD (right cursor) : Move the sled forward.
[L] Sled REV (left cursor) : Move the sled reverse.
[U] Sled FWD (up cursor) : Reset the sled.
[D] Sled REV (down cursor) : Limit in the sled.

2-3. Track/Layer Jump

```
          Track/Layer Jump
1.  1Tj         FWD
2.  1Tj         REV
3.500Tj Fine    FWD
4.500Tj Fine    REV
5.10kTj Dirc    FWD
6.10kTj Dirc    REV
7.20kTj Dirc    FWD
8.20kTj Dirc    REV

0. All Servo Off

                      Exit: RETURN
```

On this screen, track jump, etc. can be performed. Only for the DVD dual layer disc, the focus jump and layer jump are displayed in the right field

[1] 1Tj FWD : 1 track jump forward.
[2] 1Tj REV : 1 track jump reverse.
[3] 500Tj FWD : 500 track jump (fine search)forward.
[4] 500Tj REV : 500 track jump (fine search) reverse.
[5] 10kTj FWD : 10k track jump (direct search) forward.
[6] 10kTj REV : 10k track jump (direct search) reverse.
[7] 20kTj FWD : 20k track jump (direct search) forward.
[8] 20kTj REV : 20k track jump (direct search) reverse.
[10/0] : All servo off.

2-4. Non EEPROM Write Adjust

```
      Non EEPROM Write Adjust

1. Focus Offset
2. Focus Gain
3. Trk.  Offset Coarse
4. Trk.  Offset Fine
5. Trk.  Gain
6. EQ    Boost

0.All Servo Off


                      Exit: RETURN
```

On this screen, each item can be adjusted manually. Select the desired number [1] to [10/0] from the remote commander, and current setting for the selected item will be displayed, then increase or decrease numeric value with the [↑] key or [↓] key. This value is stored in the EEPROM. If CLV has been applied, the jitter is displayed for reference for the adjustment.

[1] Focus Offset : Adjusts focus offset.
[2] Focus Gain : Adjusts focus gain.
[3] TRK. Offset : Adjusts tracking offset of the RF amp (IC001) side.
[4] TRK. Offset : Adjusts tracking offset of the DSP (IC401) side.
[5] TRK. Gain : Adjusts track gain.
[6] EQ Boost : Adjusts amount of boost of equalizer.
[10/0] : All servo off.

2-5. EEPROM Write Adjust

```
        EEPROM Write Adjust

 1. Focus  Offset
 2. Focus  Gain
 3. Trk.   Offset Coarse
 4. ———————
 5. Trk.   Gain
 6. EQ     Boost

 0.All Servo Off


                          Exit: RETURN
```

On this screen, each item can be adjusted automatically. Select the desired number [1] to [10/0] from the remote commander, and selected item is adjusted automatically.

[1] Focus Offset : Adjusts focus offset.
[2] Focus Gain : Adjusts focus gain.
[3] TRK. Offset : Adjusts tracking offset of the RF amp (IC001) side.
[5] TRK. Gain : Adjusts track gain.
[6] EQ Boost : Adjusts amount of boost of equalizer.
[10/0] : All servo off.

2-6. Memory Check

Display images are shown as follows, and all two screens are able to switch by the [↑] key (UP) or [↓] key (DW).

```
EEPROM Data 1/2   CD  SL  L0  L1
Focus  Gain       xx  xx  xx  xx
Trk.   Gain       xx  xx  xx  xx
Focus  Offset     xx  xx  xx  xx
Trk.   Offset     xx  xx  xx  xx
EQ.    Boost      xx  xx  xx  xx
PI     Level      xx  xx  --  --
Fcs. Balance      --  xx  --  --
Jitter            xx  xx  xx  xx
Mirror Time       xx  xx  xx  --
FE Level          --  xx  --  --
Traverse Lv1.     --  xx  --  --
Next:DW Default:CLR    Exit:RET
```

```
EEPROM Data 2/2    CDRW DVDRW
Focus  Gain          xx    xx
Trk.   Gain          xx    xx
Focus  Offset        xx    xx
Trk.   Offset        xx    xx
EQ.    Boost         xx    xx




Prev:UP Default:CLR        Exit:RET
```

On this screen, current servo adjusted data stored in the EEPROM are displayed. The adjusted data are initialized by pressing the [CLEAR] key, but be careful that they are not recoverable after initialization.
Before clearing the adjusted data, make a note of the set data. This screen will also appear if [0]-All is selected in the Drive Auto Adjustment. In this case, default setting cannot be made.

2-7. Disc Check Memory

```
         Disc Check Memory

 1. SL Disc check
 2. CD Disc check
 3. DL Disc check









                          Exit: RETURN
```

On this screen, measure the mirror time of chucked disc, and write to the EEPROM.

2-8. Error Rate Display

```
          Error Rate Display
              UC    CR  ADD
PI1 Err  Now xx xxxx xxxxxxxx
         Max xx xxxx xxxxxxxx
         Avg xx xxxx xxxxxxxx
PI2 Err  Now xx xxxx xxxxxxxx
         Max xx xxxx xxxxxxxx
         Avg xx xxxx xxxxxxxx
PO  Err  Now xx xxxx xxxxxxxx
         Max xx xxxx xxxxxxxx
         Avg xx xxxx xxxxxxxx

                          Exit: RETURN
```

On this screen, measure and display the error rate.

UC : Incorrect value
CR : Correct value
Add : Address

2-9. SACD Water Mark Check (Not used)

```
SACD Water Mark Check



 PSP AMP
 PSN









 Start: ENTER          Stop: RETURN
```

On this screen, measure the PSP AMP value and PSN value of SACD water mark.

3. MECHA AGING

On the Test Mode Menu screen, selecting [3] executes the aging of the mechanism deck.

```
      ### Aging Test MENU ###
   ** Pls use over 40min. CD **
         Operation Menu

1. Open/Close Test




                        Exit: RETURN
```

1) On the Aging Test MENU screen, press the [1] key on the remote commander to display the Open/Close Test screen.
2) Insert discs and press the [ENTER] key on the remote commander.
3) Is starts the aging.
   During aging, the disc number, operating status and repeat cycle are displayed. Aging can be aborted at any time by pressing the [RETURN] key. After the operation is stopped, press the [RETURN] key to return to the Aging Test MENU.

4. EMERGENCY HISTORY

On the Test Mode Menu screen, selecting [4] displays the information such as servo emergency history.
The history information from last 1 up to 10 can be scrolled with the [↑] key or [↓] key. Also, specific information can be displayed by directly entering that number with ten keys.

```
        ### EMG. History ###

  Laser Hours     CD  xxxxhxxm
                  DVD xxxxhxxm

a.   bb xx xx xx  xx xx xx xx
     xx xx xx xx  xx xx xx xx

a.   bb xx xx xx  xx xx xx xx
     xx xx xx xx  xx xx xx xx

   Select:1-9         Scroll:UP/DOWN
  (1.Latest EMG.)       Exit: RETURN
```

xxxxhxxm : The laser on total hours. Data below minutes are omitted.
a. : Error number.
bb : Error code.
xx : Not used.

• Clearing History Information

Clearing laser hours:
Press the [DVD DISPLAY] and [CLEAR] keys in this order.
Then both CD and DVD data are cleared.

Clearing emergency history:
Press the [DVD TOP MENU] and [CLEAR] keys in this order.

Initializing set up data:
Press [DVD MENU] and [CLEAR] keys in this order.
The data have been initialized when "Set Up Initialized" message is displayed. The EMG. History screen will be restored soon.

• Code list of Emergency History

10: Communication to RF AMP (IC001) failed.
11: Each servo for focus, tracking, and spindle is unlocked.
12: Check sum error of EEPROM (IC204).
14: Communication to servo DSP (IC509) failed, or servo DSP (IC509) is faulty.
15: Communication to DVD decoder (IC701) failed, or DVD decoder (IC701) is faulty.
16: Communication to DSD decoder (IC801) failed, or DSD decoder (IC801) is faulty. (Not used)
20: Initialization of sled servo failed. It is not placed in the initial position.
23: Sled servo operation error.
24: Made a request to move the sled servo to wrong position.
30: Tracking balance adjustment error.
31: Tracking gain adjustment error.
33: Focus bias adjustment error.
34: Focus gain adjustment error.
35: Equalizer adjustment error.
40: Focus servo does not operate.
41: With a DVD dual layer disc, focus jump failed.
50: CLV (spindle) servo does not operate.
51: Spindle does not stop.
60: Made a request to seek nonexistent address.
61: Seek error of retry more than regulated times.
70: Control data could not be read.
80: Disc reading failed.

5. MECHA ERROR HISTORY

On the Test Mode Menu screen, selecting [5] displays the information of mechanism deck error history.
The history information from last 1 up to 8 can be scrolled with the [↑] key or [↓] key. Also, specific information can be displayed by directly entering that number with ten keys.

```
    ### Mecha Error History ###

  1. aa bb cc xx xx xx xx xx
  2. aa bb cc xx xx xx xx xx
  3. aa bb cc xx xx xx xx xx
  4. aa bb cc xx xx xx xx xx
  5. aa bb cc xx xx xx xx xx
  6. aa bb cc xx xx xx xx xx
  7. aa bb cc xx xx xx xx xx
  8. aa bb cc xx xx xx xx xx

                      Scroll:UP/DOWN
(1.Latest Err.)         Exit: RETURN
```

aa: Initialization is completed or not.
FF : Complete.
other number : Not complete.
bb: Operating status of mechanism deck at an error occurred.
(lod sq jcp)
00 : Initializing.
10 to 15 : Open operating.
16 to 19 : Kicking cause open failed.
1A to 1F : Open operating.
20 to 27 : Complete the open operation.
28 : No disc and complete the open operation.
29 to 2F : Complete the open operation.
30 to 3F : Close requesting.
40 to 4F : Open requesting.
50 to 5F : Close operating.
60 to 6F : Complete the chucking operation.
80 to 8F : Complete the release operation.
(BU is home position)
90 to 9F : BU down operating.
A0 to AF : Opening/closing the shutter. Or stationary state in open/close the shutter is enablement.
B0 to BF : BU up requesting.
C0 to CF : BU down requesting.
D0 to DF : BU upping.
E0 to EF : No disc checking in disc loading.
cc: Operating status of mechanism deck at an error occurred.
(lod oq jcp)
00 : Complete the operation.
10 to 1F : Open operating.
20 to 2F : Close operating.
30 to 3F : Release operating.
60 to 6F : Chucking operating.
70 to 7F : Kicking operating.
80 to 8F : Returning the BU to home position. (after kicking)

6. VERSION INFORMATION

On the Test Mode Menu screen, selecting [6] displays the ROM version and region code.
The parenthesized hexadecimal number in version field is checksum value of ROM.

```
     ## Version Information ##

IF con.   Ver.x. xx

SYScon.   Ver.x. xx  (xxxx)
       Model      MHC-WZ8D_6D
       Region     0x
       Config     xxxxxxxx

Front End Ver.x.xx


                          Exit: RETURN
```

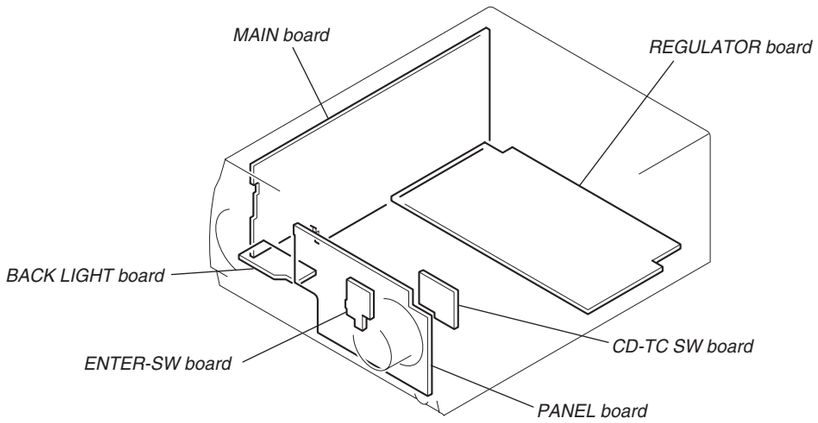
IF con. : The version of system controller (IC501).
SYScon. : The version of DVD system processor (IC207).
Front End: The version of mechanism controller (IC901).

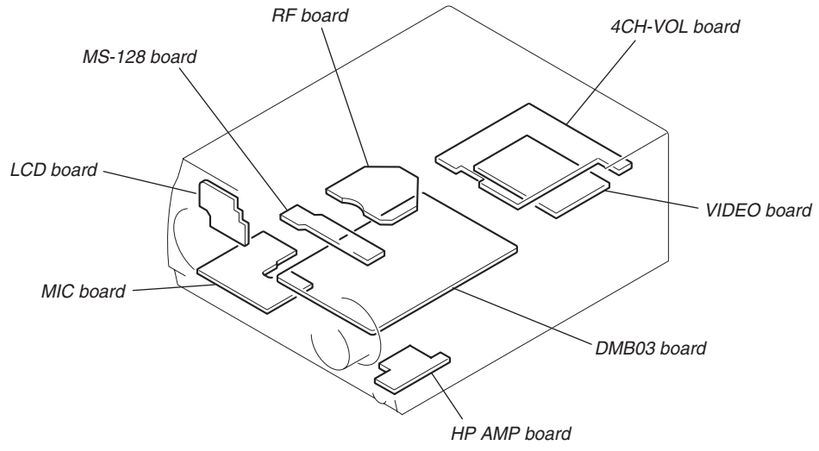
7. VIDEO LEVEL ADJUSTMENT

On the Test Mode Menu screen, selecting [7] displays color bars for video level adjustment. During display of color bars, OSD disappears but the menu screen will be restored if pressing the [RETURN] key.

SECTION 4
DIAGRAMS

Circuit Boards Location





THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component
- : nonflammable resistor
- : fusible resistor
- : panel designation

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- : B+ Line
- : B– Line
- : adjustment for repair
- Power voltage is fed with DXA-WZ8D from external connector (SYSTEM CONTROL 1, 2).
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path
  - : AUDIO
  - : VIDEO
  - : PB (TAPE)
  - : REC (TAPE)
  - : CD
  - : DVD
  - : TUNER
  - : MD
  - : Y
  - : CHROMA
  - : COMPONENT VIDEO
- Abbreviation

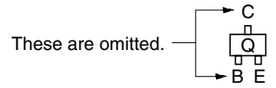
AUS	: Australian model
E2	: 120V AC area in E model
E3	: 240V AC area in E model
E15	: 220-240V AC area in E model
EA	: Saudi Arabia model
KR	: Korean model
MY	: Malaysia model
PH	: Philippines model
RU	: Russian model
SP	: Singapore model
TH	: Thai model

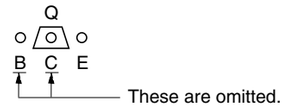
Note on Printed Wiring Boards:

- : parts extracted from the component side
- : parts extracted from the conductor side
- : Pattern from the side which enables seeing

Caution:	
Pattern face side: (SIDE B)	Parts on the pattern face side seen from the pattern face are indicated
Parts face side: (SIDE A)	Parts on the parts face side seen from the parts face are indicated

- Indication of transistor





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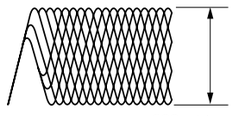
• Waveforms

-RF Board-

① IC001 ① (DVDRFP)



200 mV/DIV, 100 ns/DIV

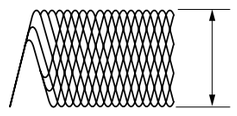
② IC001 ㊴ (TE)

500 mV/DIV, 1 ms/DIV

③ IC001 ㊵ (FE)

100 mV/DIV, 1 ms/DIV

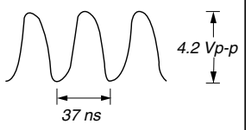
④ IC001 ㊼ (RFAC)



500 mV/DIV, 100 ns/DIV

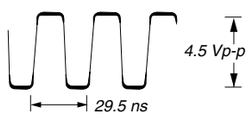
-DMB03 Board-

⑤ IC906 ⑧ (XTO)



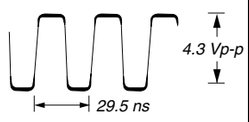
1 V/DIV, 10 ns/DIV

⑦ IC906 ⑩ (SO2)



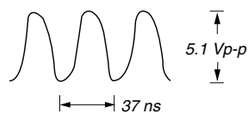
1 V/DIV, 10 ns/DIV

⑧ IC906 ⑬ (SO3)



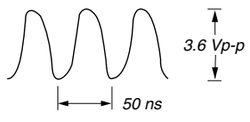
1 V/DIV, 10 ns/DIV

⑨ IC906 ③ (MO1)



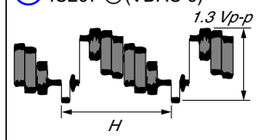
1 V/DIV, 10 ns/DIV

⑩ IC901 ㊵ (XTAL)



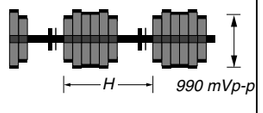
1 V/DIV, 20 ns/DIV

⑪ IC207 ㉛ (VDAC 0)



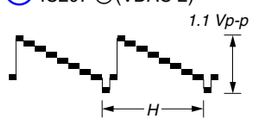
500 mV/DIV, 20 µs/DIV

⑫ IC207 ㉘ (VDAC 1)



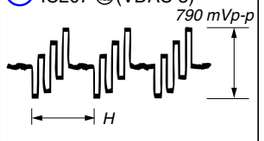
200 mV/DIV, 20 µs/DIV

⑬ IC207 ㉕ (VDAC 2)



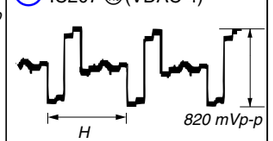
200 mV/DIV, 20 µs/DIV

⑭ IC207 ㉜ (VDAC 3)



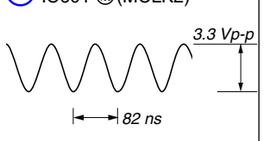
200 mV/DIV, 20 µs/DIV

⑮ IC207 ㉙ (VDAC 4)



200 mV/DIV, 20 µs/DIV

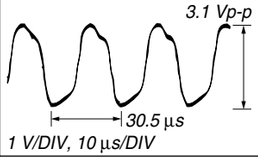
⑯ IC601 ㊴ (MCLK2)



1 V/DIV, 40 ns/DIV

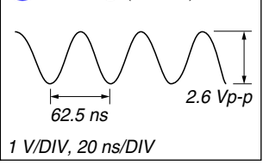
-MAIN Board-

⑰ IC401 ⑪ (XC-OUT)



1 V/DIV, 10 µs/DIV

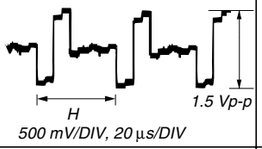
⑱ IC401 ⑬ (X-OUT)



1 V/DIV, 20 ns/DIV

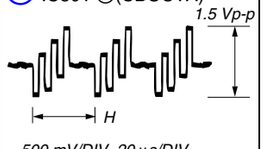
-VIDEO Board-

⑲ IC801 ⑱ (CROUTA)



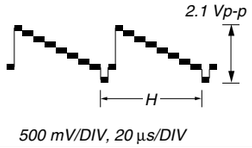
500 mV/DIV, 20 µs/DIV

⑳ IC801 ㉑ (CBOUTA)



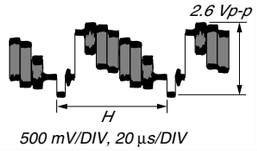
500 mV/DIV, 20 µs/DIV

㉑ IC801 ㉔ (CYOUTA)



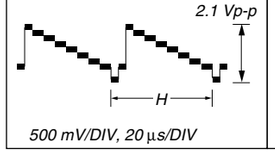
500 mV/DIV, 20 µs/DIV

㉒ IC801 ㉚ (V OUTA)



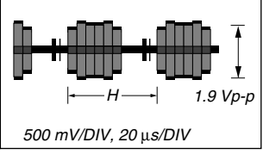
500 mV/DIV, 20 µs/DIV

㉓ IC801 ㉗ (Y OUTA)



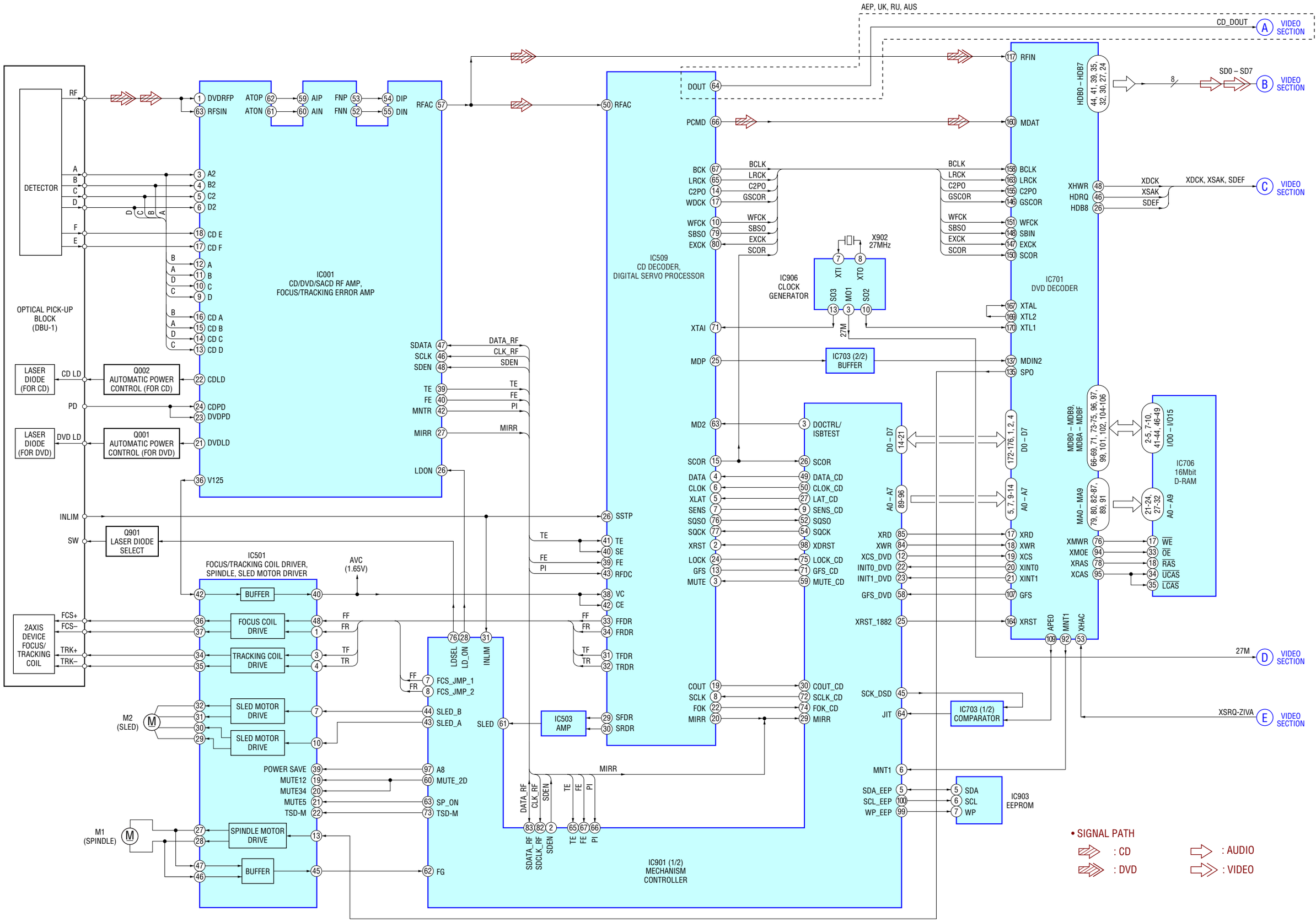
500 mV/DIV, 20 µs/DIV

㉔ IC801 ㉝ (C OUT)



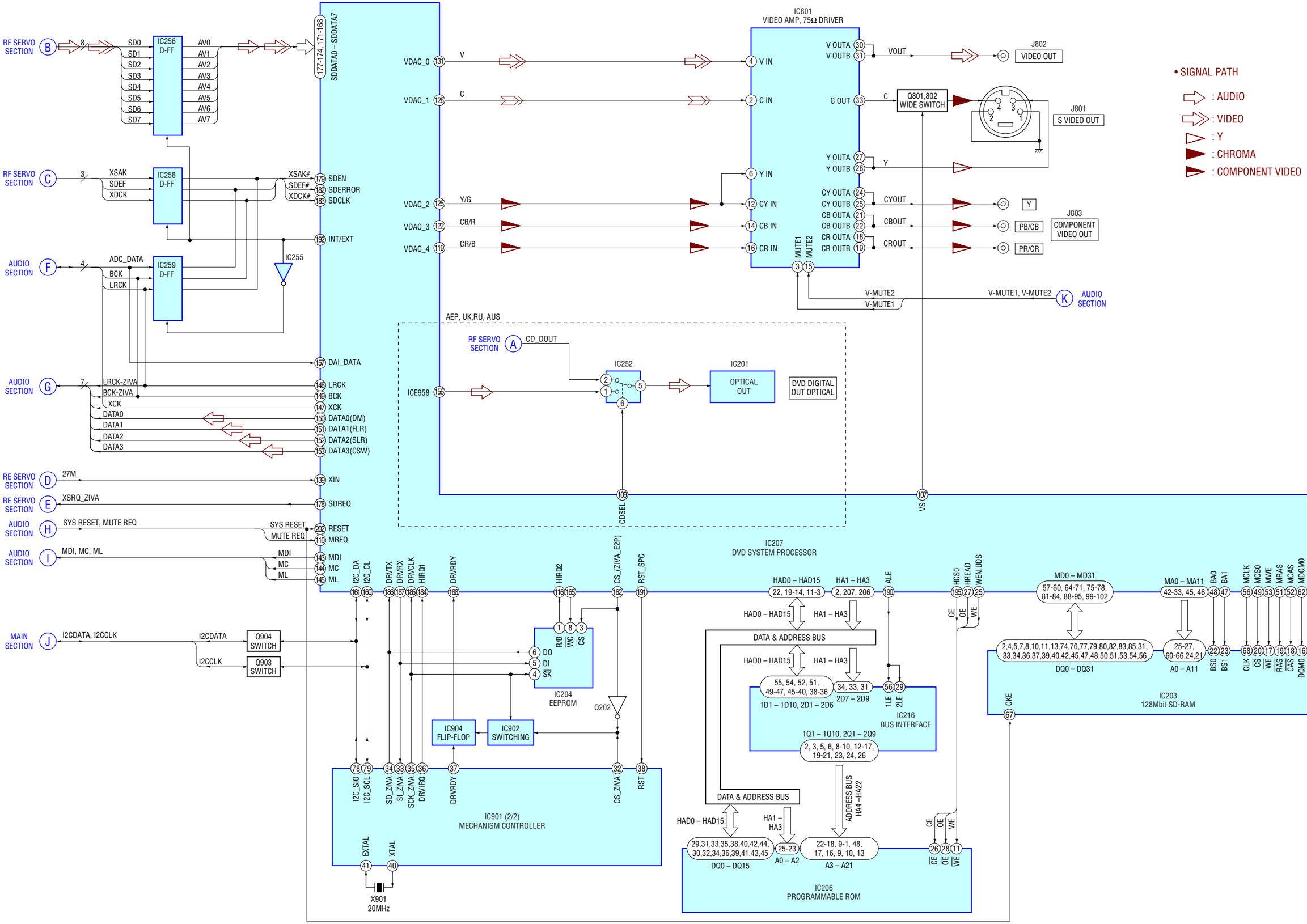
500 mV/DIV, 20 µs/DIV

4–1. Block Diagrams – RF Servo Section –

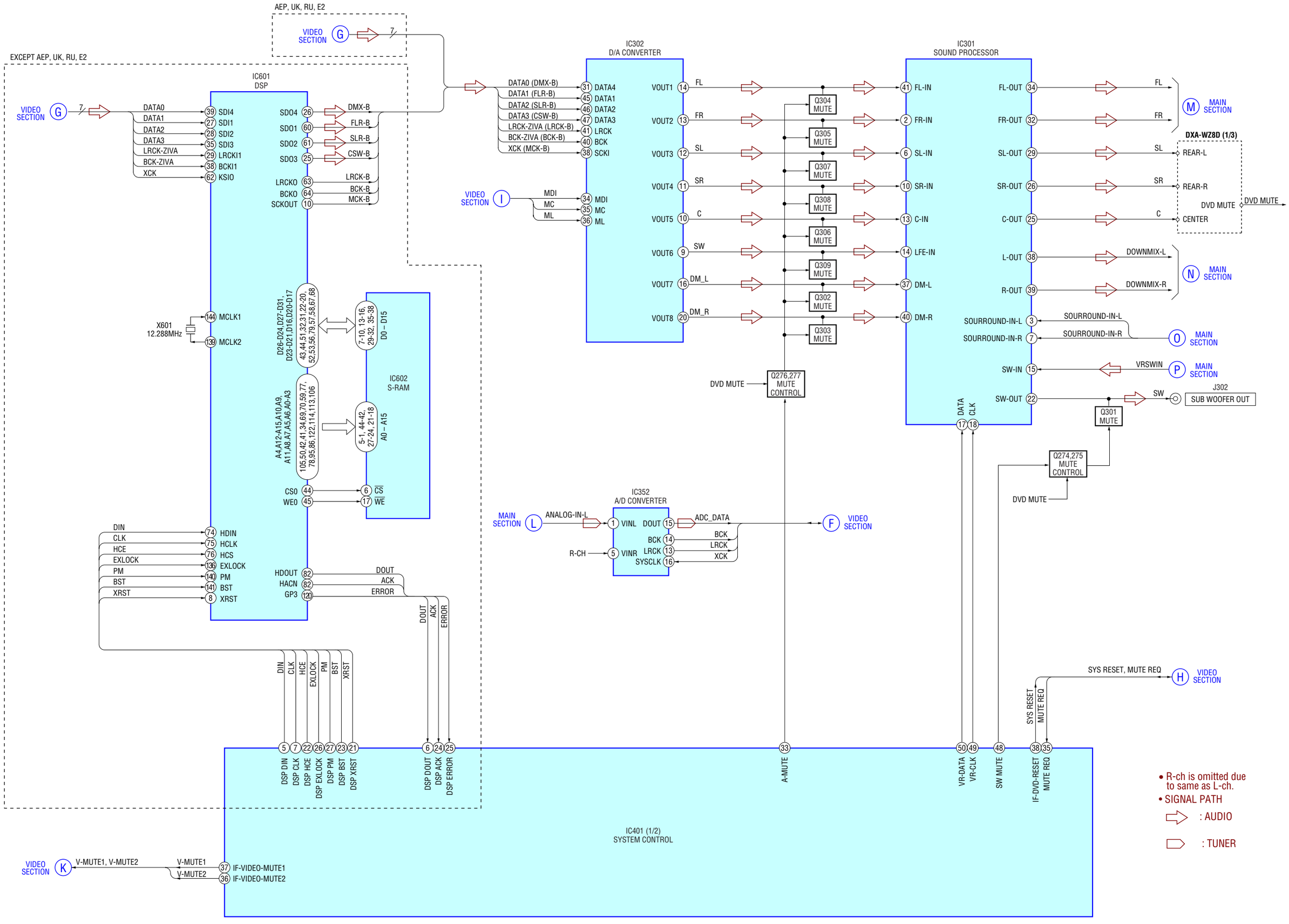


HCD-WZ8D

– Video Section –



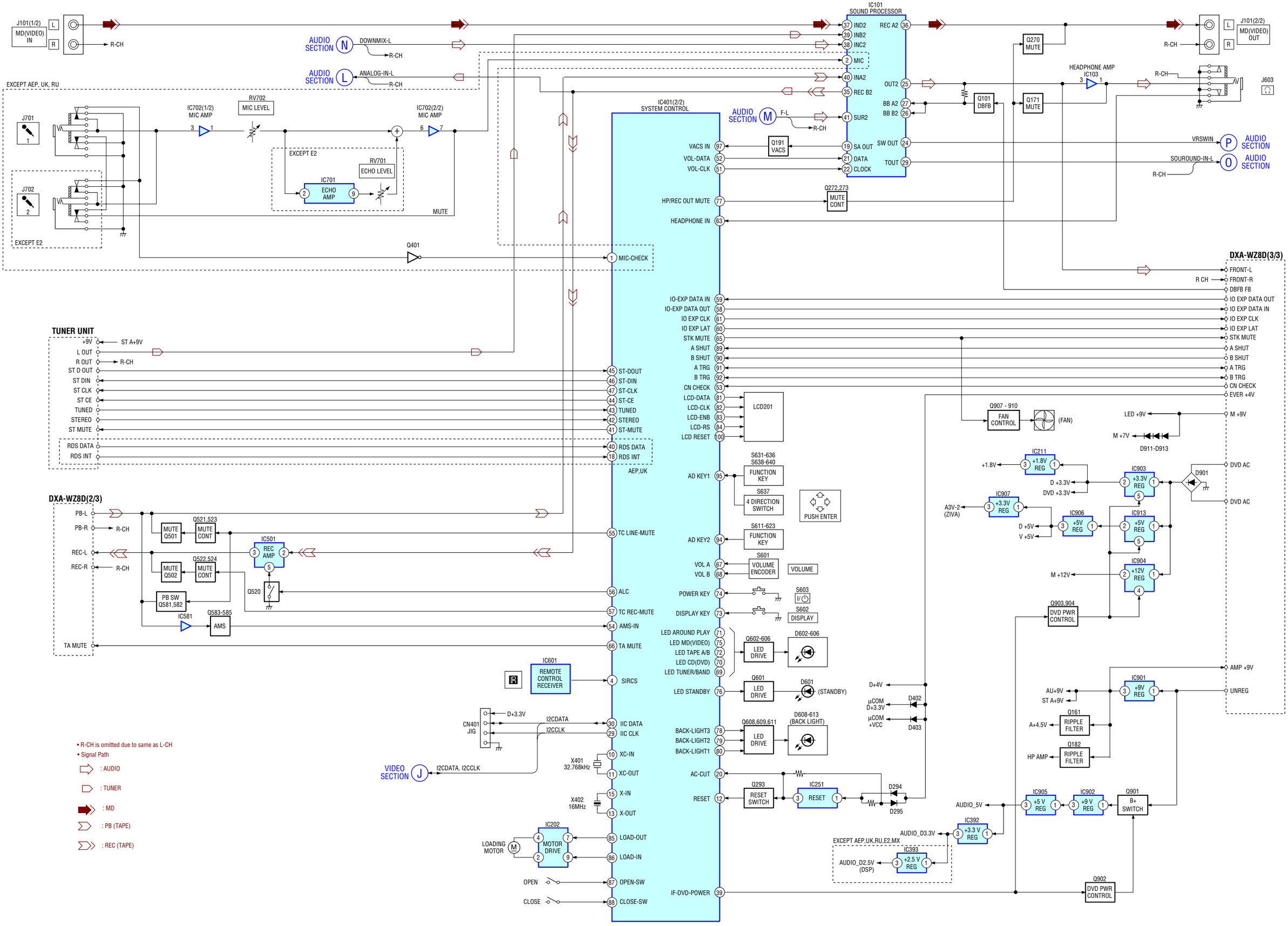
– Audio Section –



- R-ch is omitted due to same as L-ch.
- SIGNAL PATH
  - : AUDIO
  - : TUNER

HCD-WZ8D

– Main Section –



4–2. Printed Wiring Board – RF Board –

• See page 23 for Circuit Boards Location. • : Uses unleaded solder.

【RF BOARD】(SIDE A)

【RF BOARD】(SIDE B)

OPTICAL PICK-UP BLOCK (DBU-1)

A
DMB03 BOARD CN501 (Page 31)

IC001

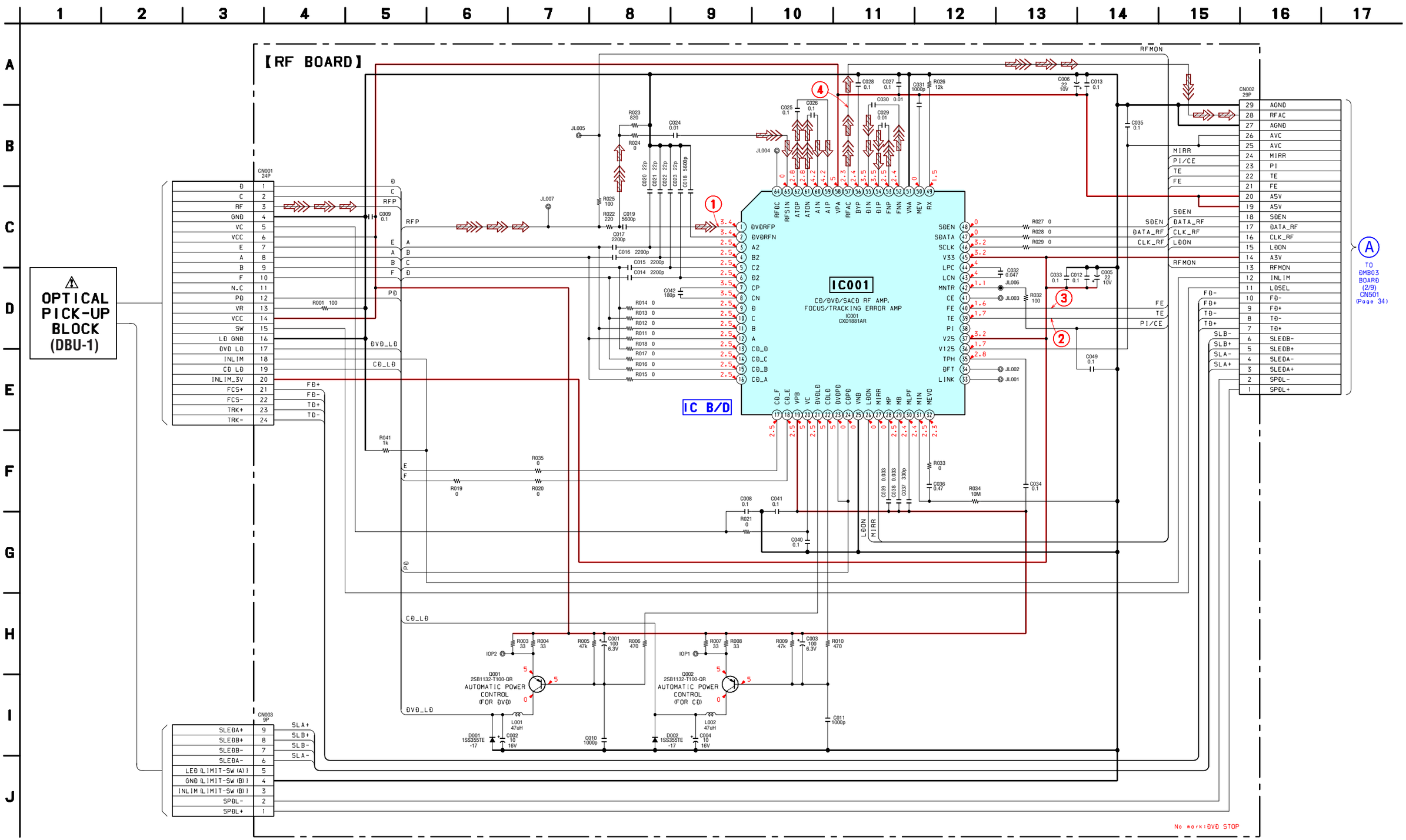
1-684-822-

11
(11)

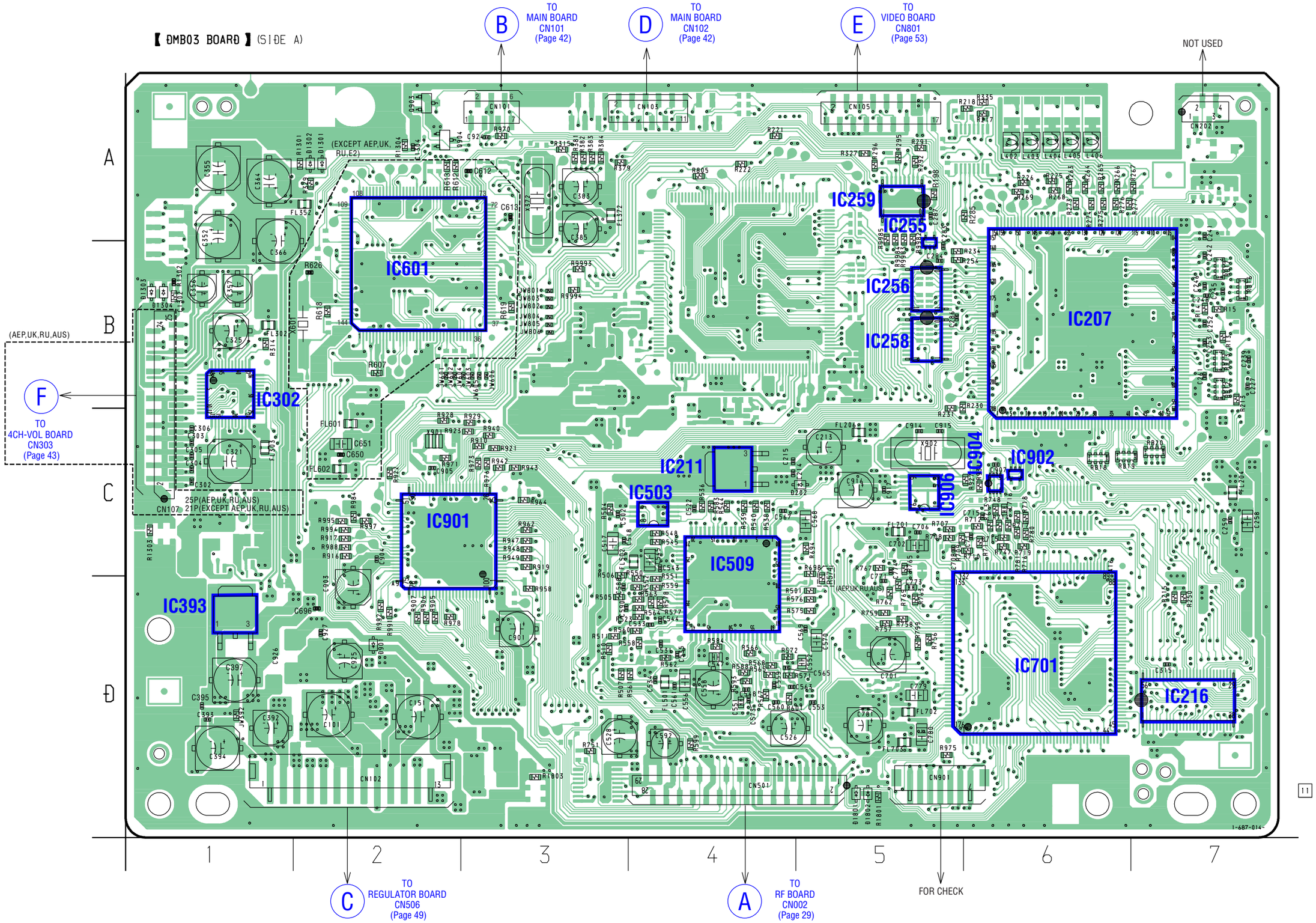
• **Semiconductor Location**

Ref. No.	Location
D001	C-11
D002	B-11
IC001	D-11
Q001	C-3
Q002	B-3

4–3. Schematic Diagram – RF Board – • See page 24 for Waveforms. • See page 55 for IC Block Diagrams.



4–4. Printed Wiring Board – DMB03 Board (Side A) – • See page 23 for Circuit Boards Location. • **:** Uses unleaded solder.

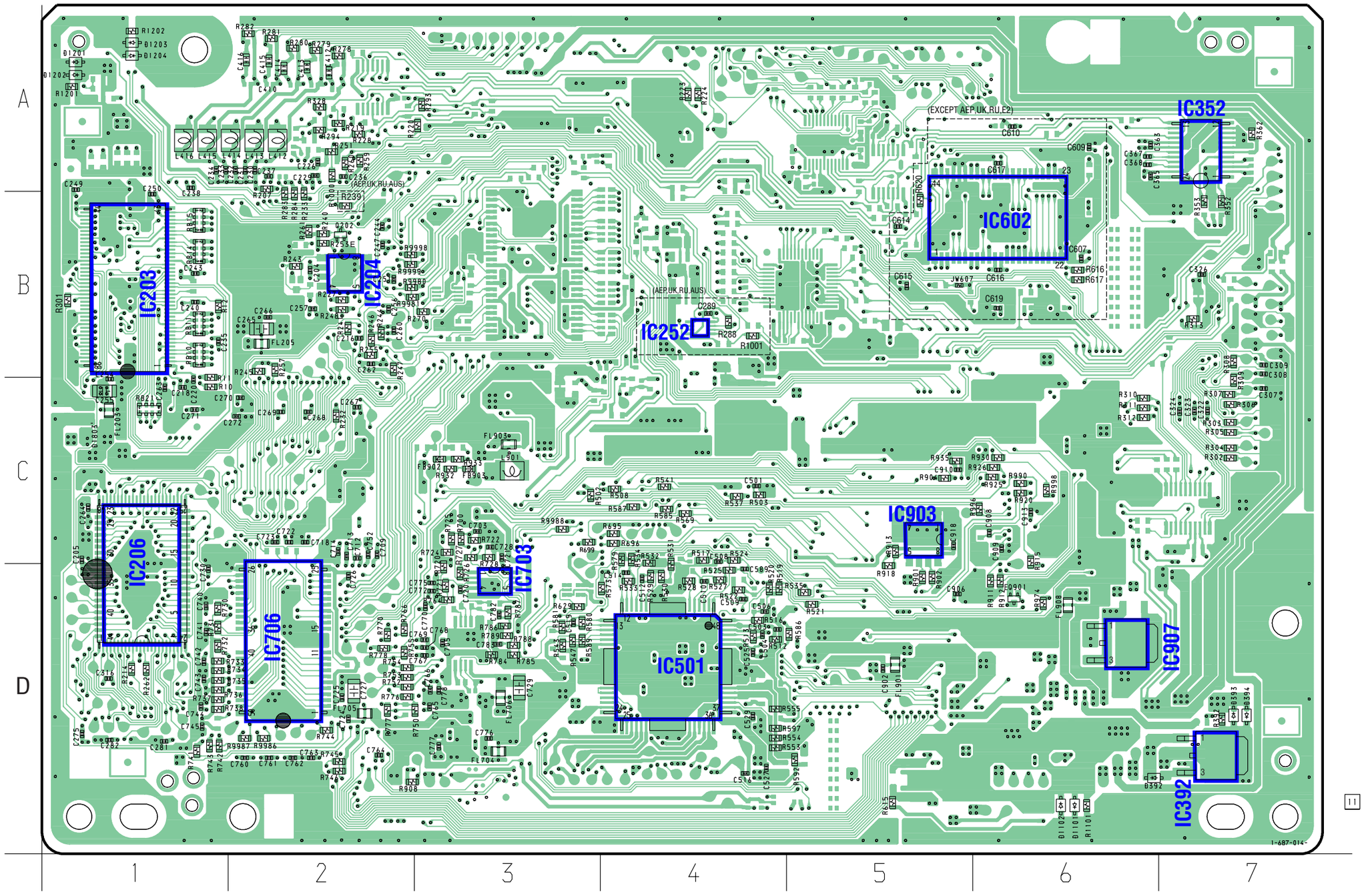


• **Semiconductor Location**

Ref. No.	Location
D202	C-4
D901	D-2
D1301	A-2
D1302	A-2
D1303	B-1
D1304	B-1
D1801	D-5
D1802	D-5
IC207	B-6
IC211	C-4
IC216	D-7
IC255	B-5
IC256	B-5
IC258	B-5
IC259	A-5
IC302	B-1
IC393	D-1
IC503	C-4
IC509	C-4
IC601	B-2
IC701	D-6
IC901	C-2
IC902	C-6
IC904	C-6
IC906	C-5
Q903	A-2
Q904	A-2

4–5. Printed Wiring Board – DMB03 Board (Side B) – • See page 23 for Circuit Boards Location. • **:** Uses unleaded solder.

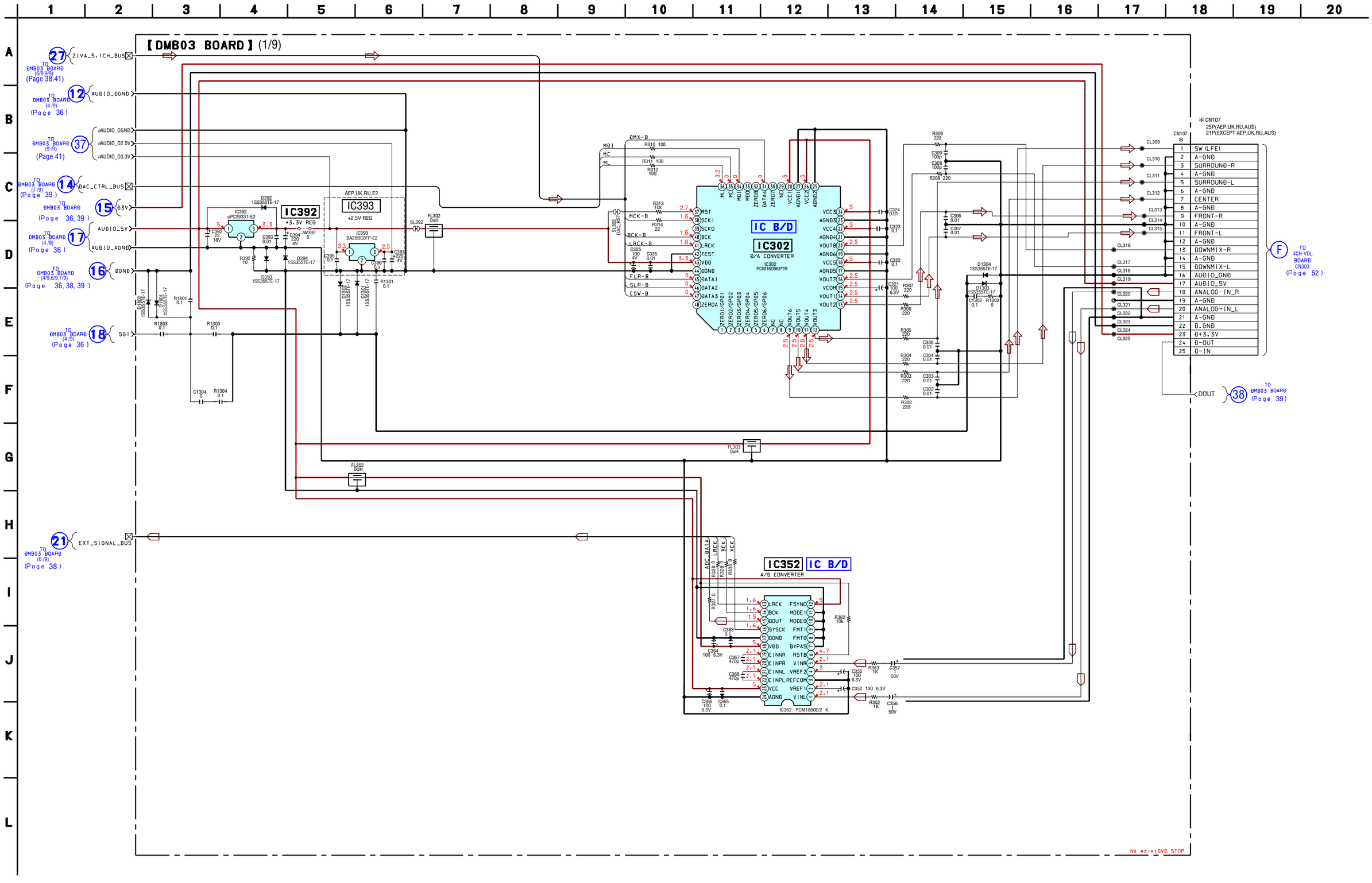
【 DMB03 BOARD 】(SIDE B)



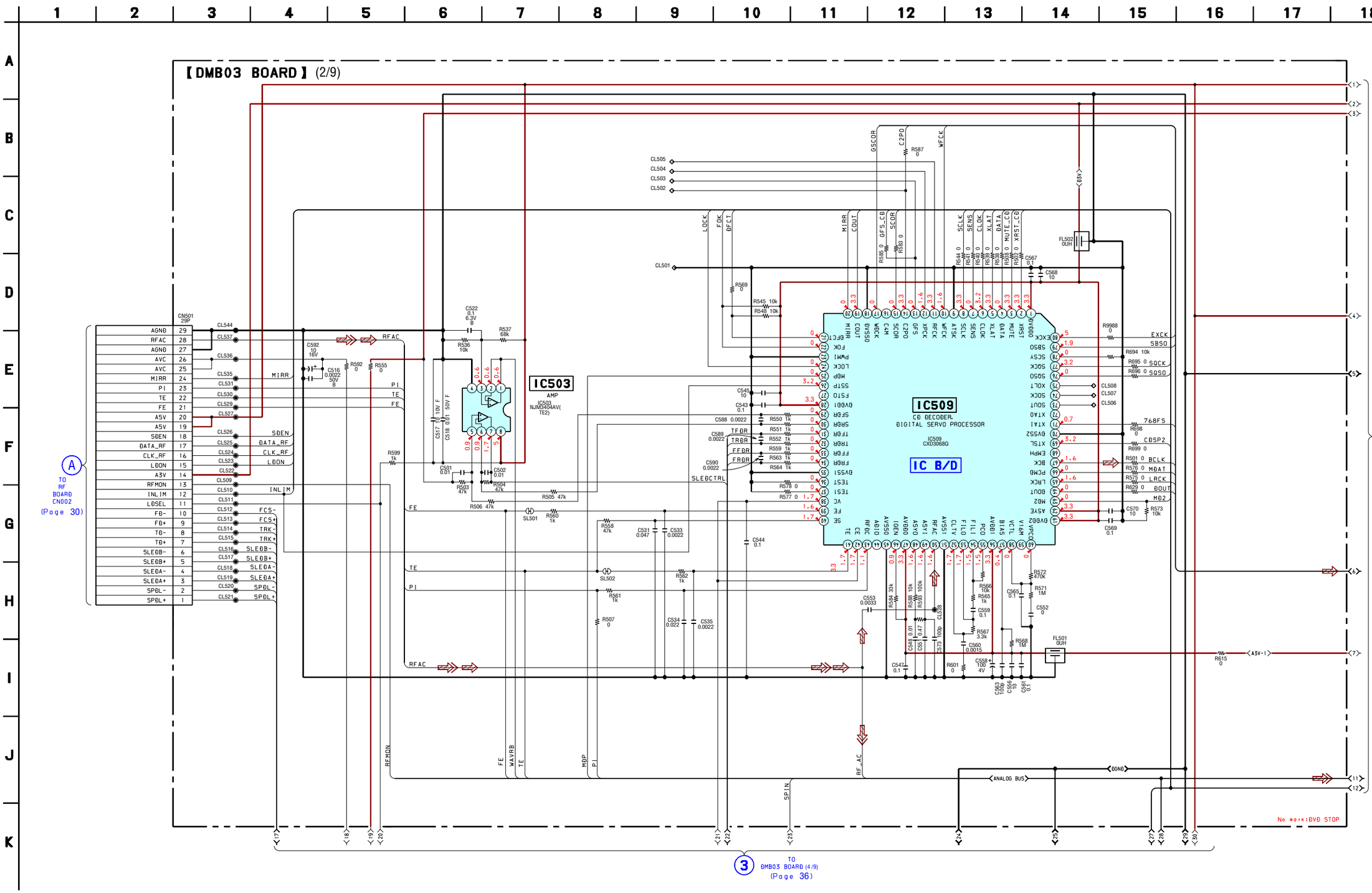
• **Semiconductor Location**

Ref. No.	Location
D392	D-6
D393	D-7
D394	D-7
D1101	D-6
D1102	D-6
D1201	A-1
D1202	A-1
D1203	A-1
D1204	A-1
IC203	B-1
IC204	B-2
IC206	C-1
IC252	B-4
IC352	A-7
IC392	D-7
IC501	D-4
IC602	B-6
IC703	D-3
IC706	D-2
IC903	C-5
IC907	D-7
Q202	B-2
Q901	D-6

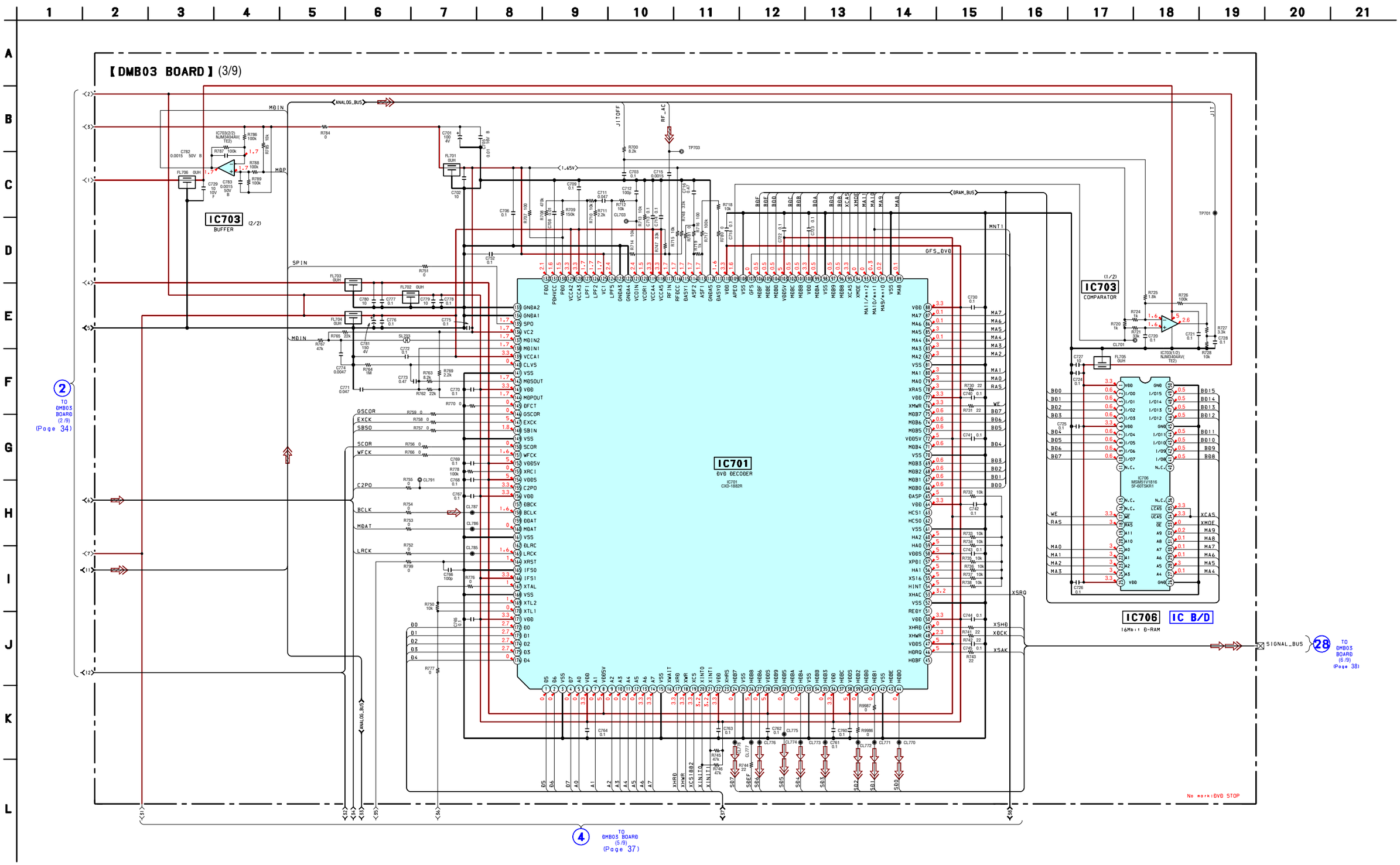
4–6. Schematic Diagram – DMB03 Board (1/9) – • See page 56 for IC Block Diagrams.



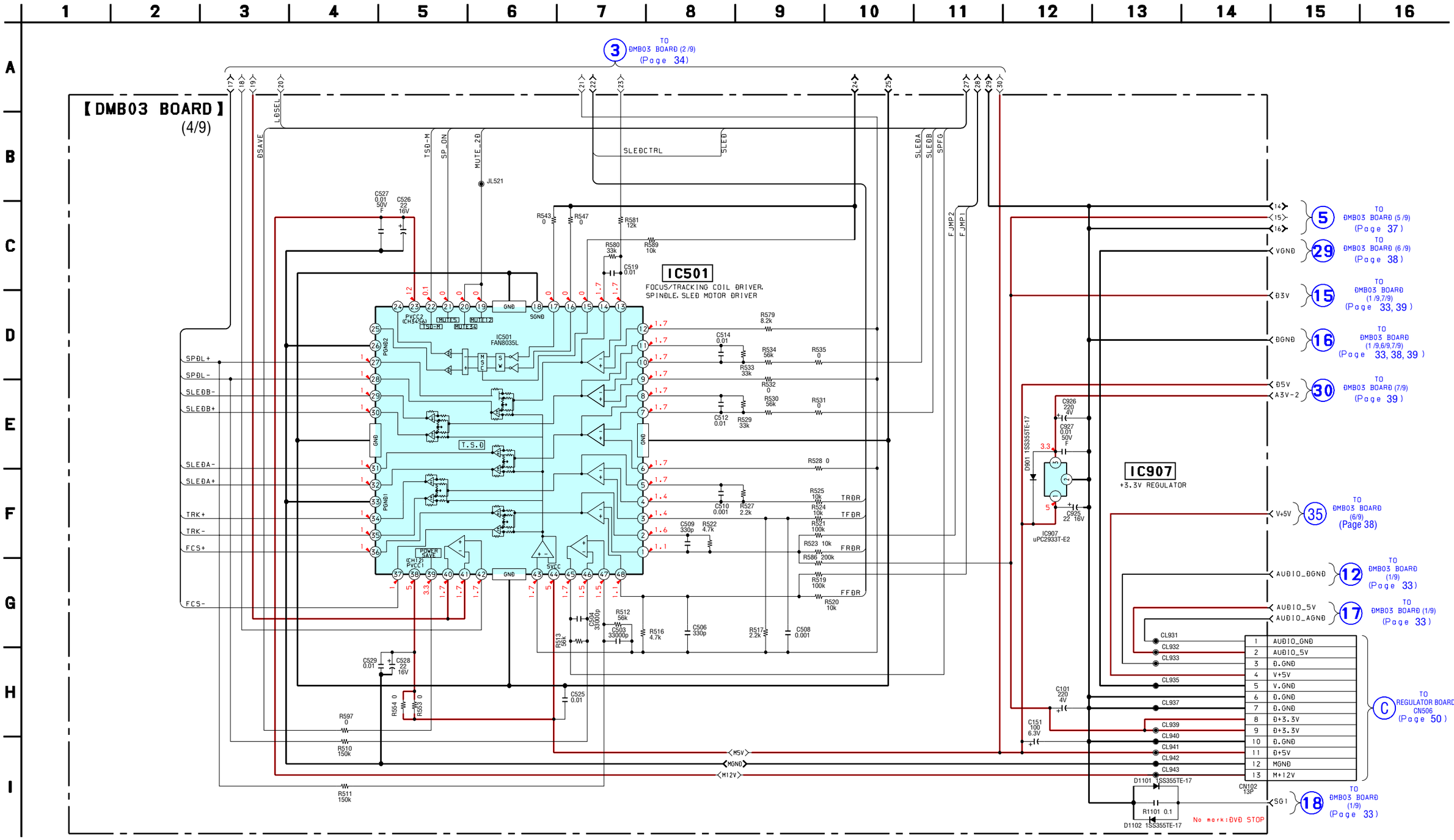
4–7. Schematic Diagram – DMB03 Board (2/9) – • See page 57 for IC Block Diagrams.



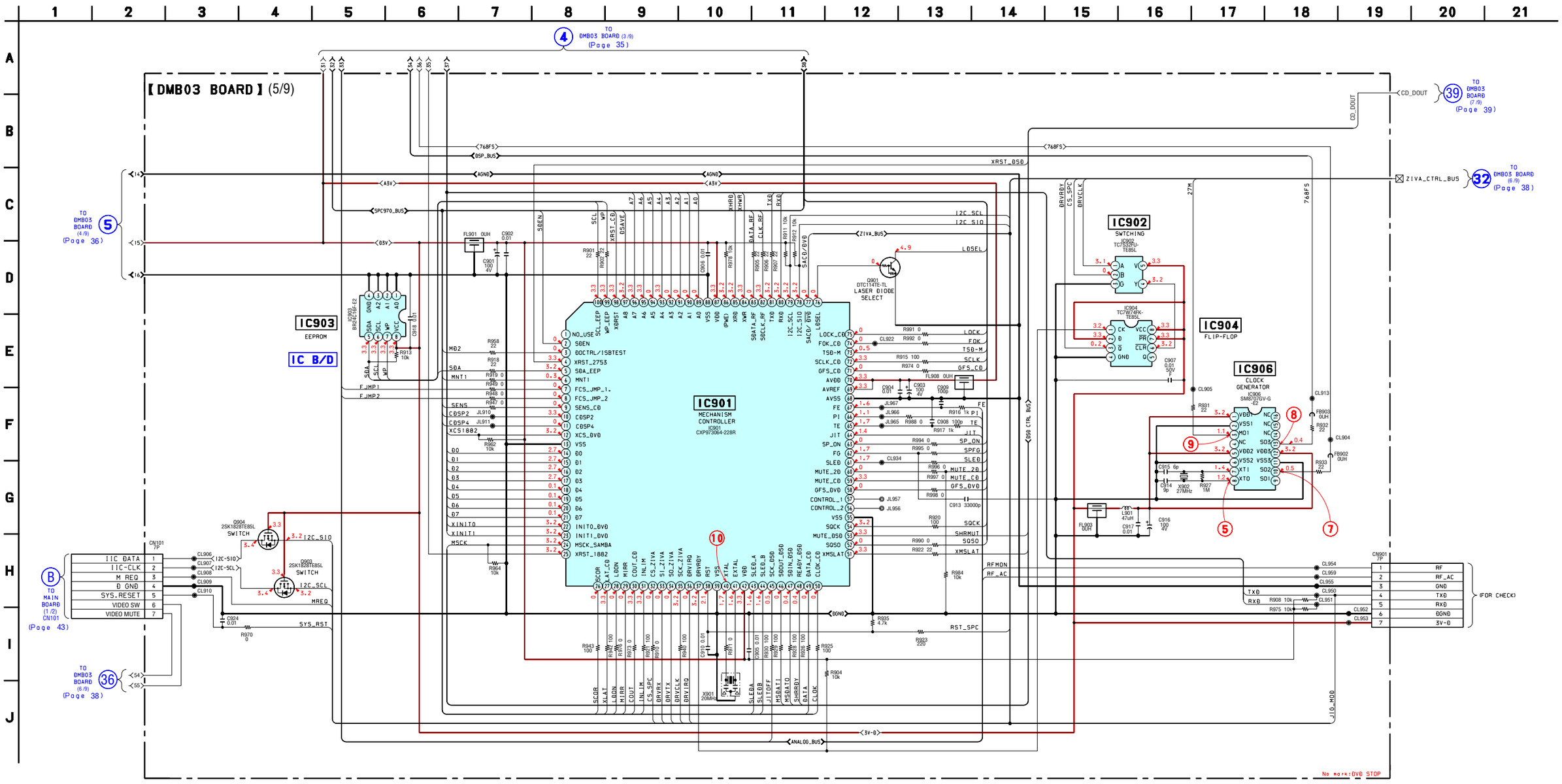
4–8. Schematic Diagram – DMB03 Board (3/9) – • See page 58 for IC Block Diagrams.



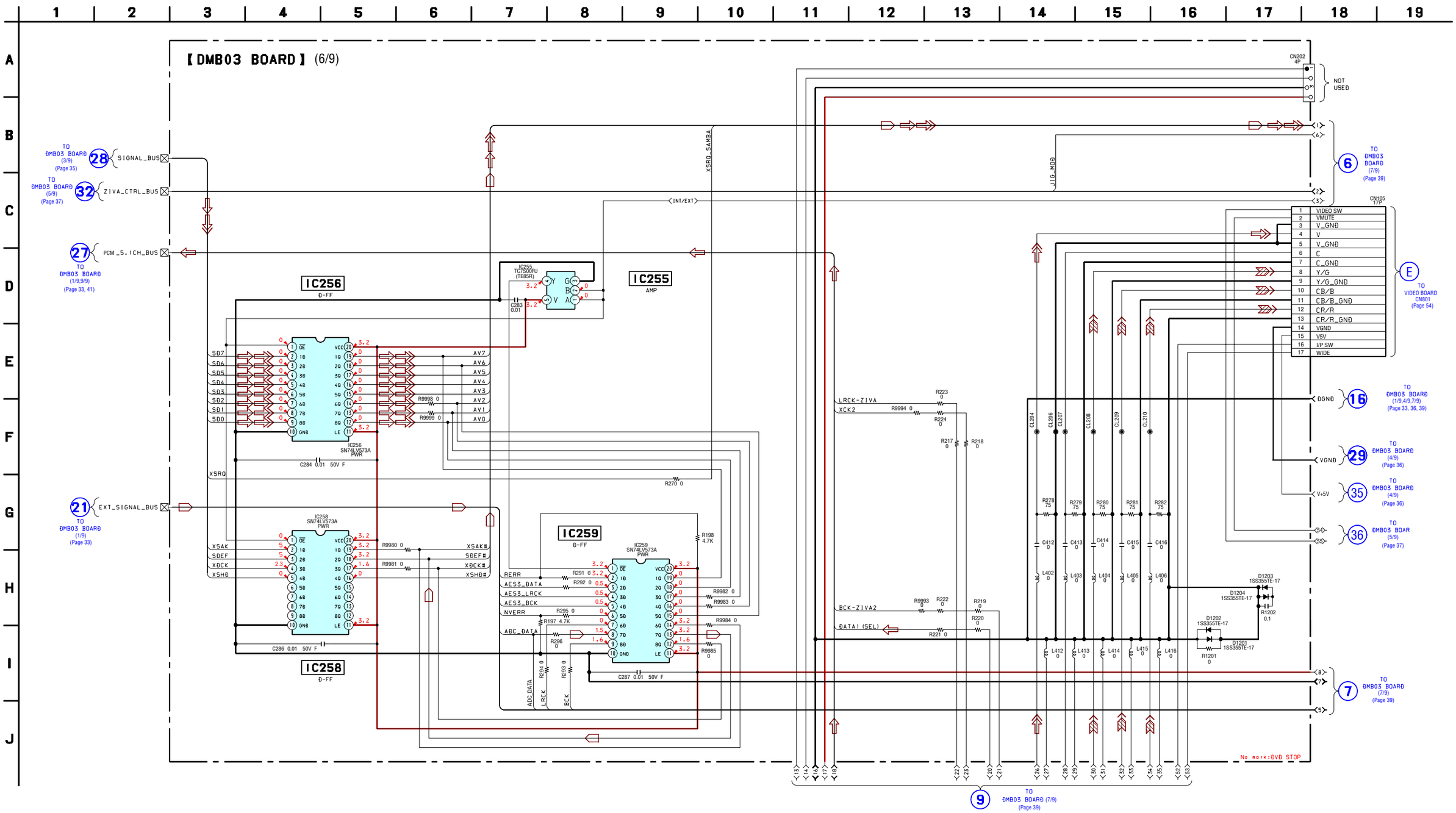
4–9. Schematic Diagram – DMB03 Board (4/9) –



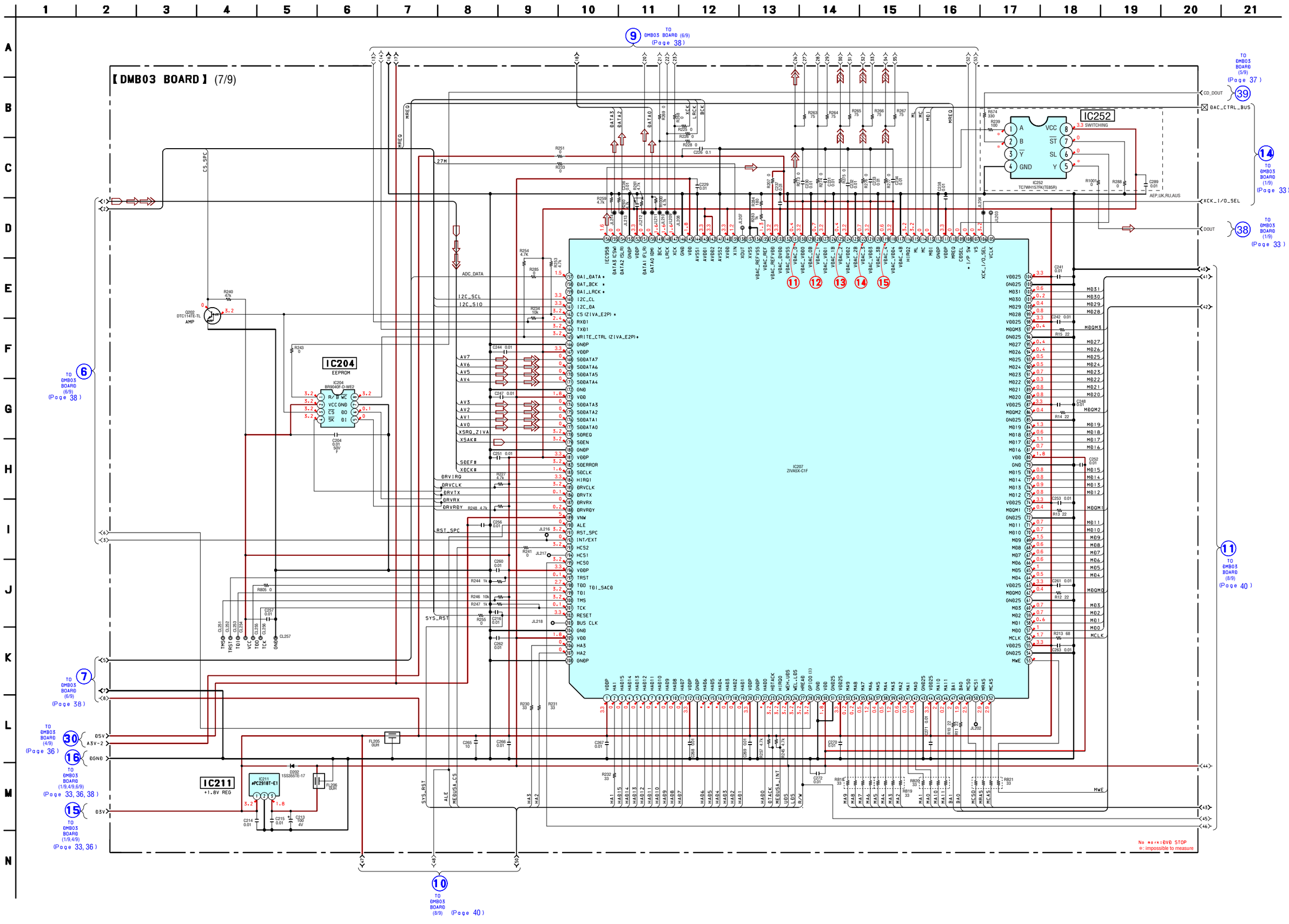
4–10. Schematic Diagram – DMB03 Board (5/9) – • See page 24 for Waveforms. • See page 58 for IC Block Diagrams.



4–11. Schematic Diagram – DMB03 Board (6/9) –



4–12. Schematic Diagram – DMB03 Board (7/9) – • See page 24 for Waveforms.



4–13. Schematic Diagram – DMB03 Board (8/9) – • See page 57 for IC Block Diagrams.

【DMB03 BOARD】 (8/9)

IC216 BUS INTERFACE — IC B/D

IC206 PROGRAMMABLE ROM

IC203 128Mbit SD-RAM

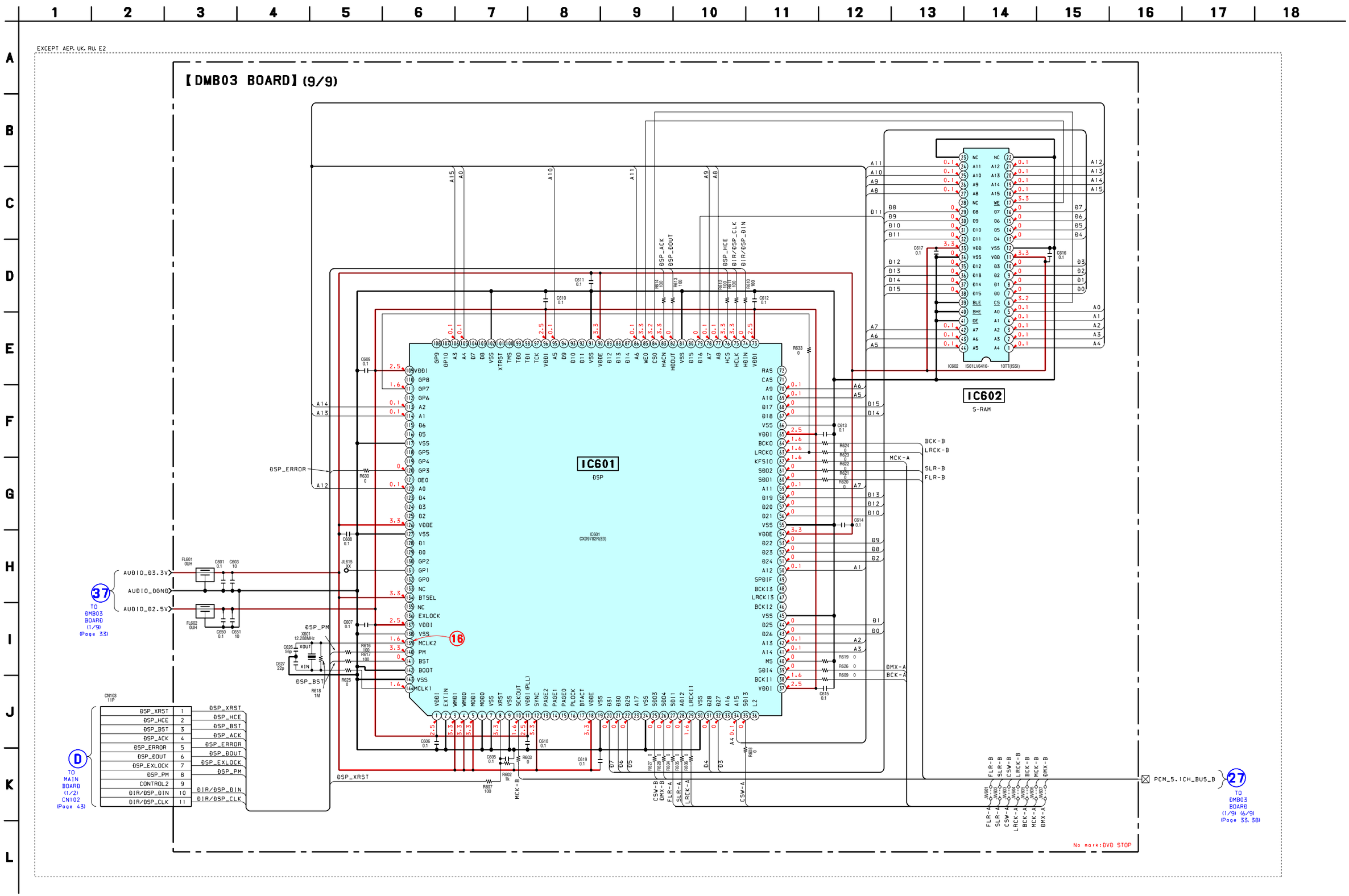
TO DMB03 BOARD (7/9) (Page 39) 11

TO DMB03 BOARD (7/9) (Page 39) 10

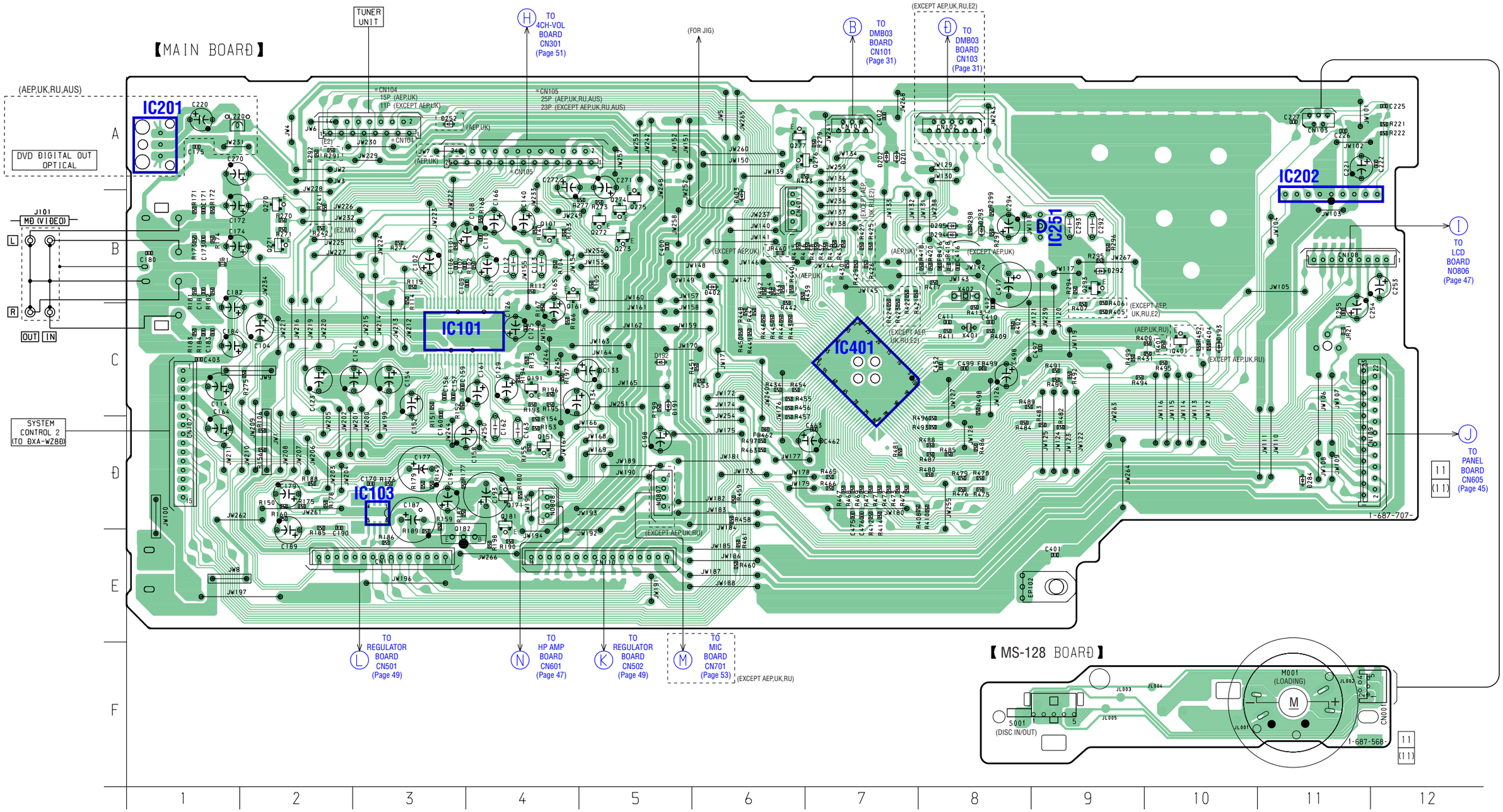
SYS_RST

No mark:DVD STOP

4–14. Schematic Diagram – DMB03 Board (9/9) – • See page 24 for Waveforms.



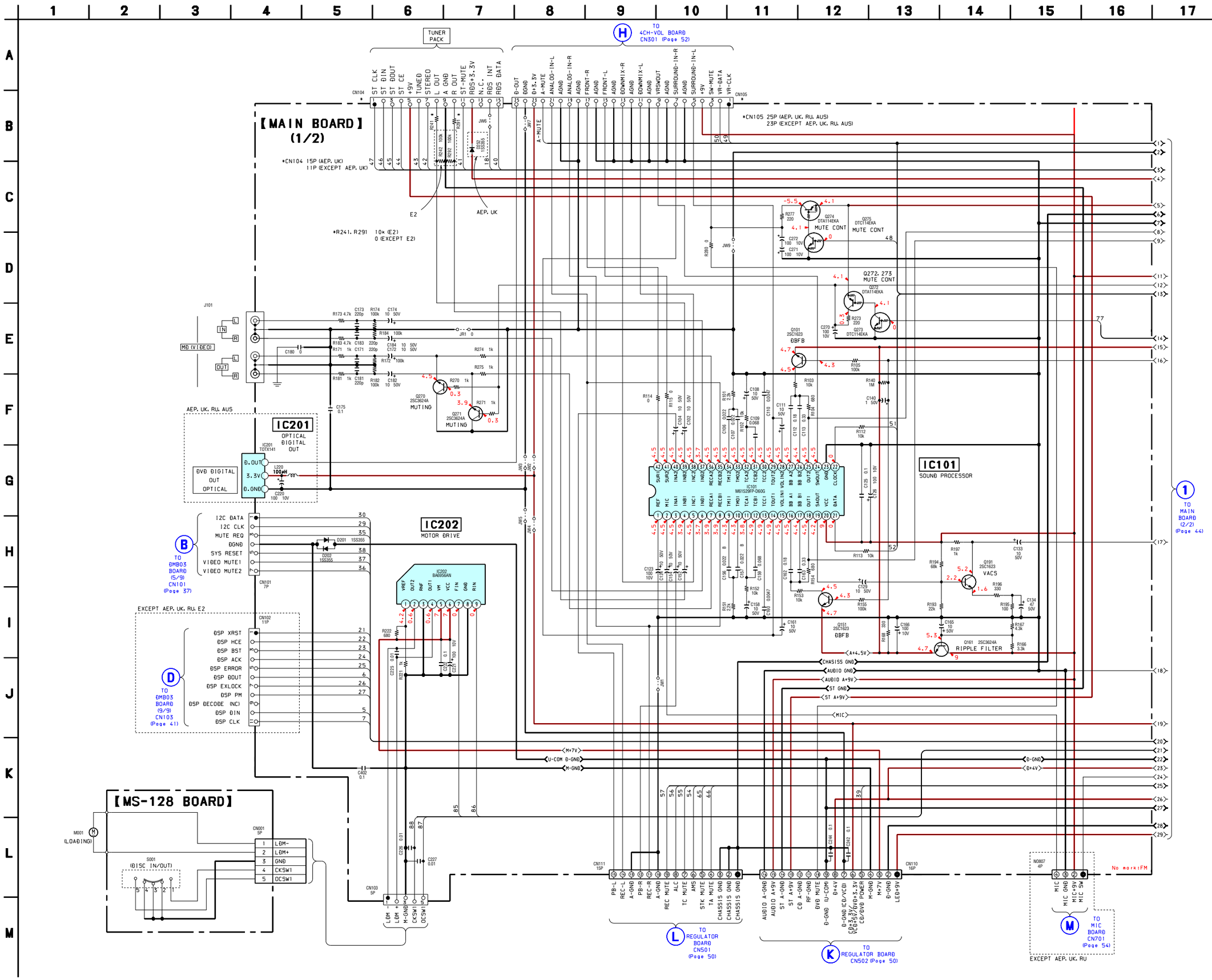
4–15. Printed Wiring Board – Main Section – • See page 23 for Circuit Boards Location. • : Uses unleaded solder.



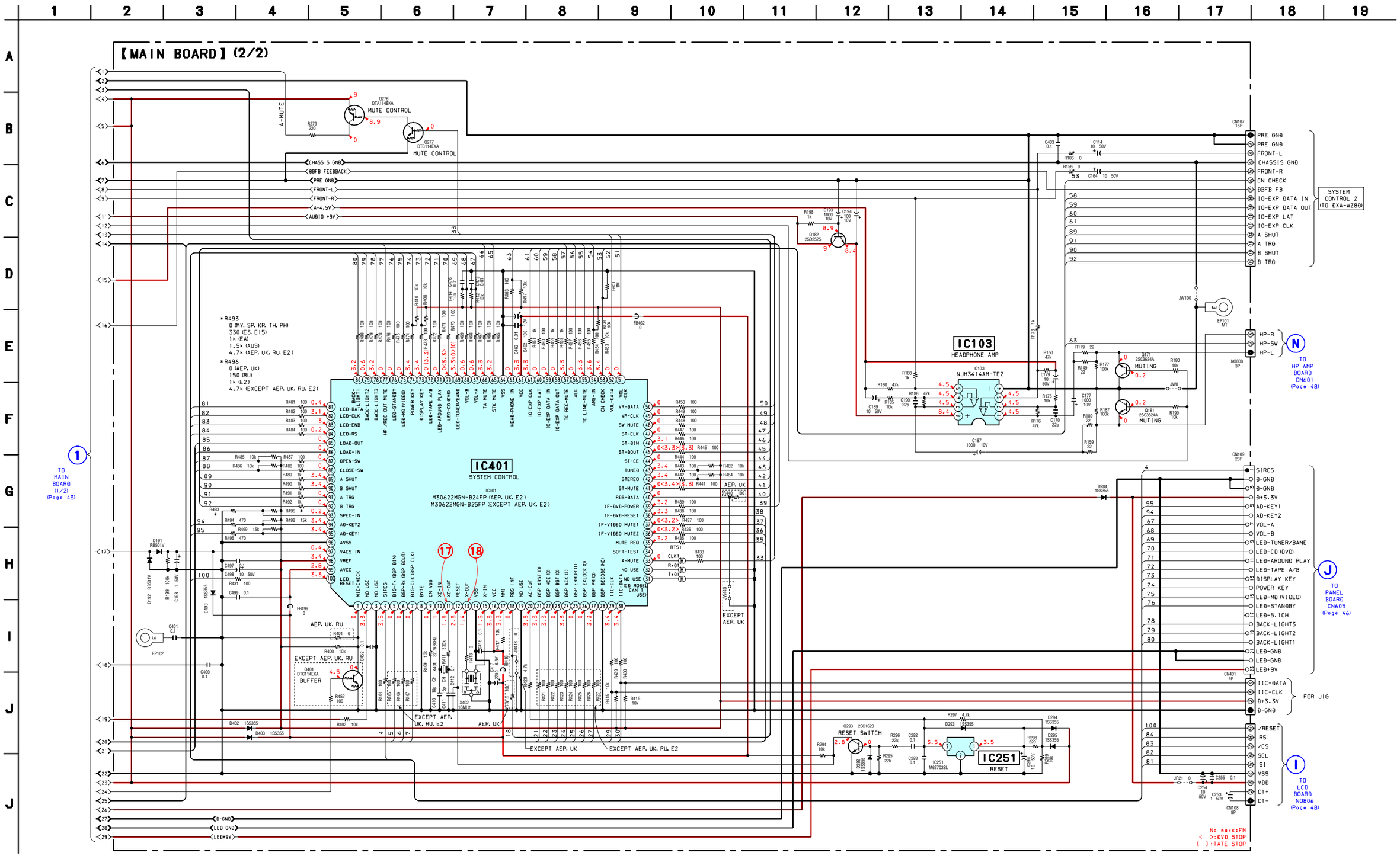
• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D191	C-5	IC101	C-3	Q191	C-4
D192	C-5	IC103	D-3	Q270	B-2
D193	C-10	IC201	A-1	Q271	B-2
D201	A-7	IC202	A-11	Q272	B-5
D202	A-7	IC251	B-9	Q273	B-5
D252	A-3	IC401	C-7	Q274	B-5
D284	D-11			Q275	B-5
D292	B-9	Q101	B-4	Q276	A-7
D293	B-8	Q151	D-4	Q277	A-6
D294	B-8	Q161	B-4	Q293	B-9
D295	B-8	Q171	D-4	Q401	C-10
D402	B-6	Q181	D-4		
D403	B-6	Q182	D-3		

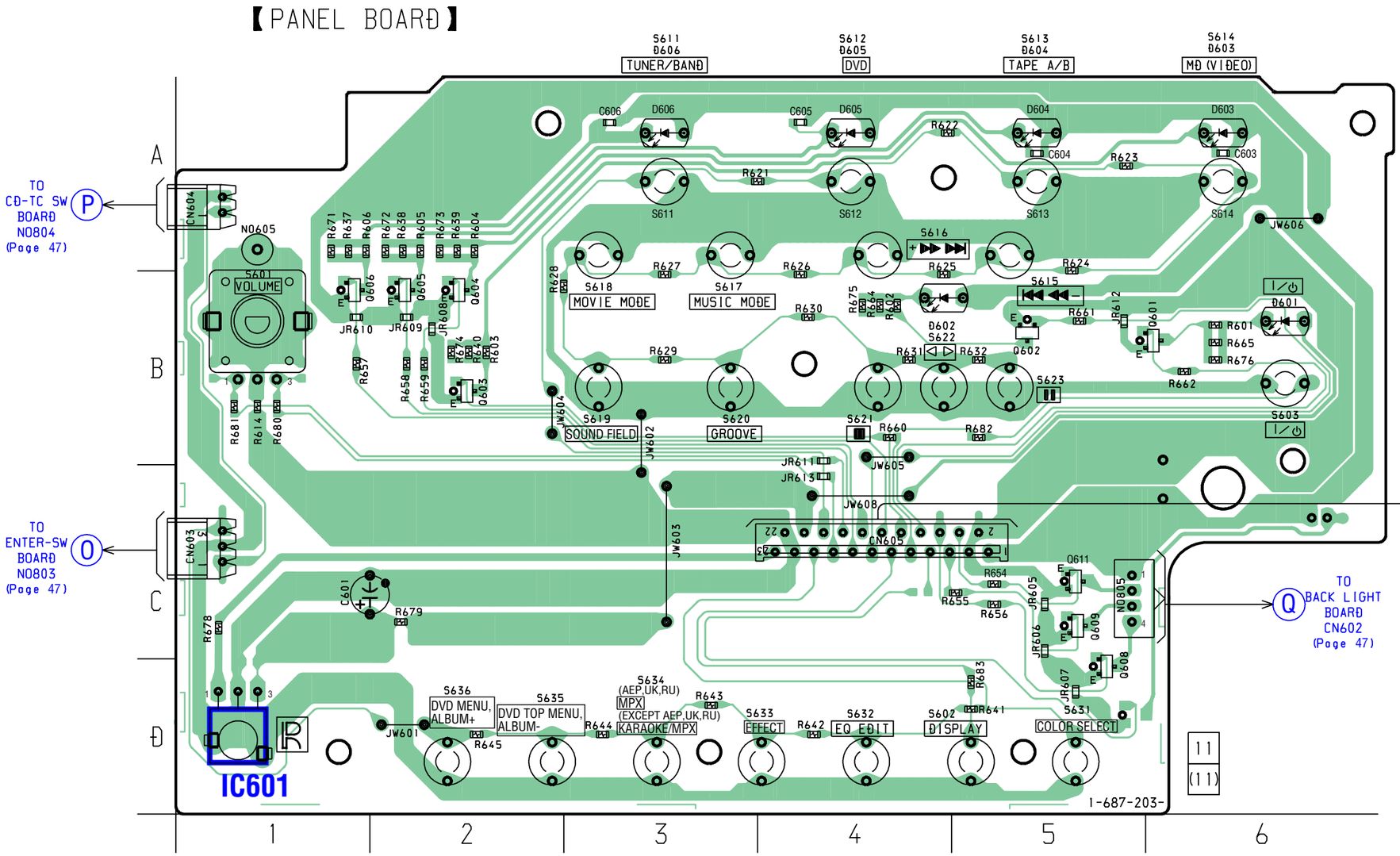
4–16. Schematic Diagram – Main Section (1/2) – • See page 59 for IC Block Diagrams.



4–17. Schematic Diagram – Main Section (2/2) – • See page 24 for Waveforms. • See page 59 for IC Block Diagrams.



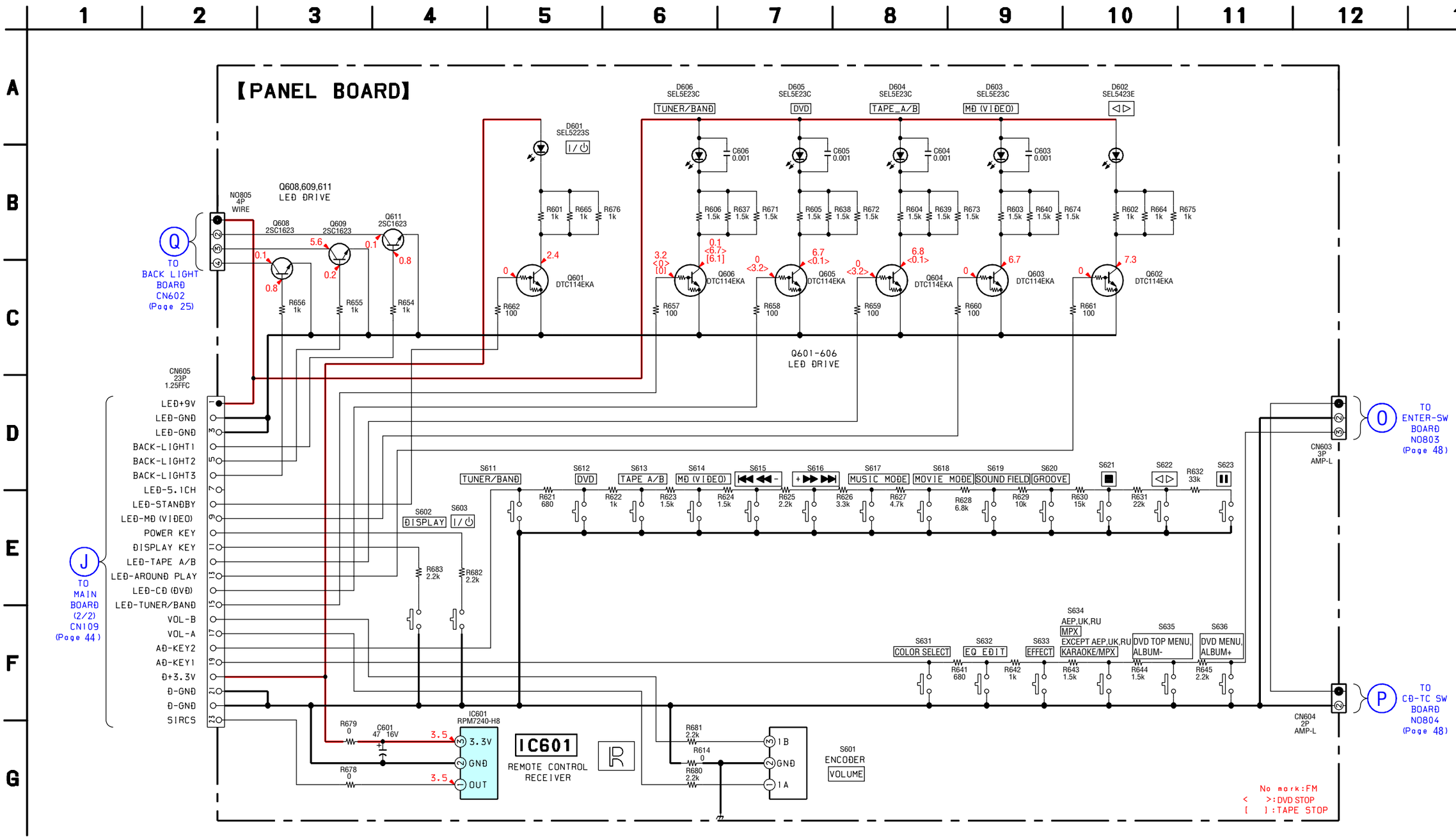
4–18. Printed Wiring Board – PANEL Board – • See page 23 for Circuit Boards Location. • **:** Uses unleaded solder.



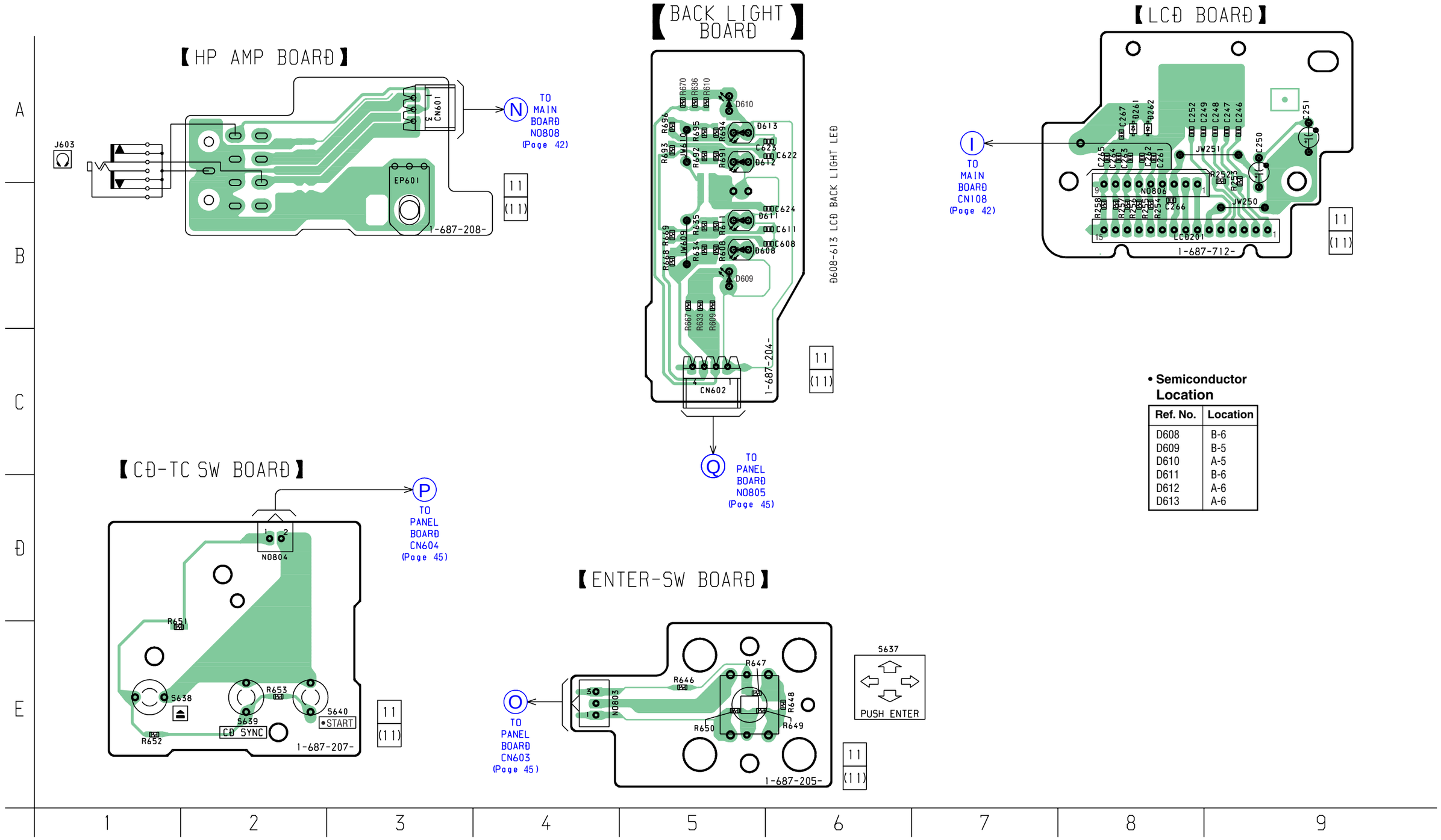
• **Semiconductor Location**

Ref. No.	Location
D601	B-6
D602	B-4
D603	A-6
D604	A-5
D605	A-4
D606	A-3
IC601	D-1
Q601	B-5
Q602	B-5
Q603	B-2
Q604	B-2
Q605	B-2
Q606	B-2
Q608	D-5
Q609	C-5
Q611	C-5

4–19. Schematic Diagram – PANEL Board –



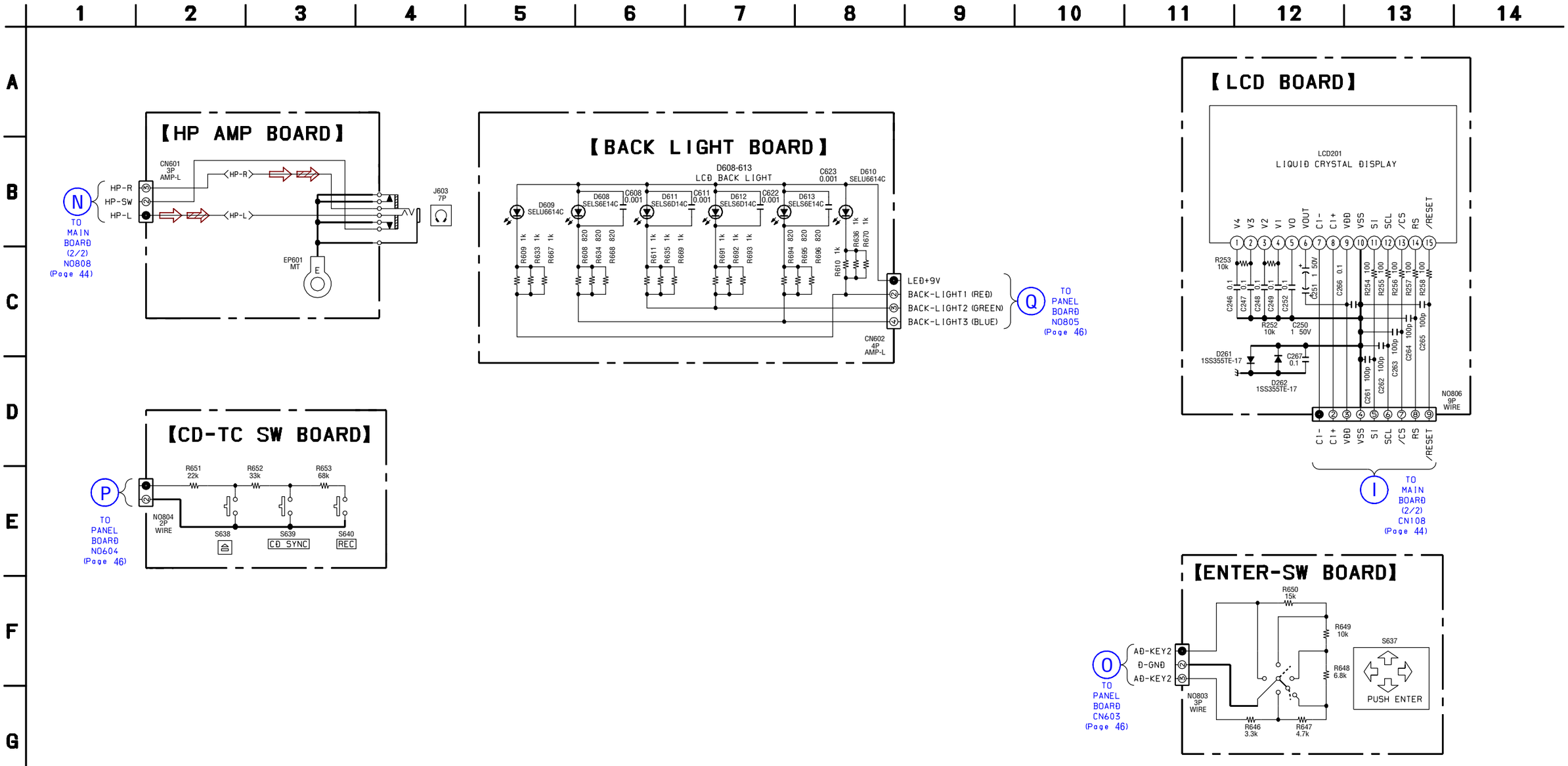
4–20. Printed Wiring Board – LCD/Switch Section – • See page 23 for Circuit Boards Location. • **:** Uses unleaded solder.



• **Semiconductor Location**

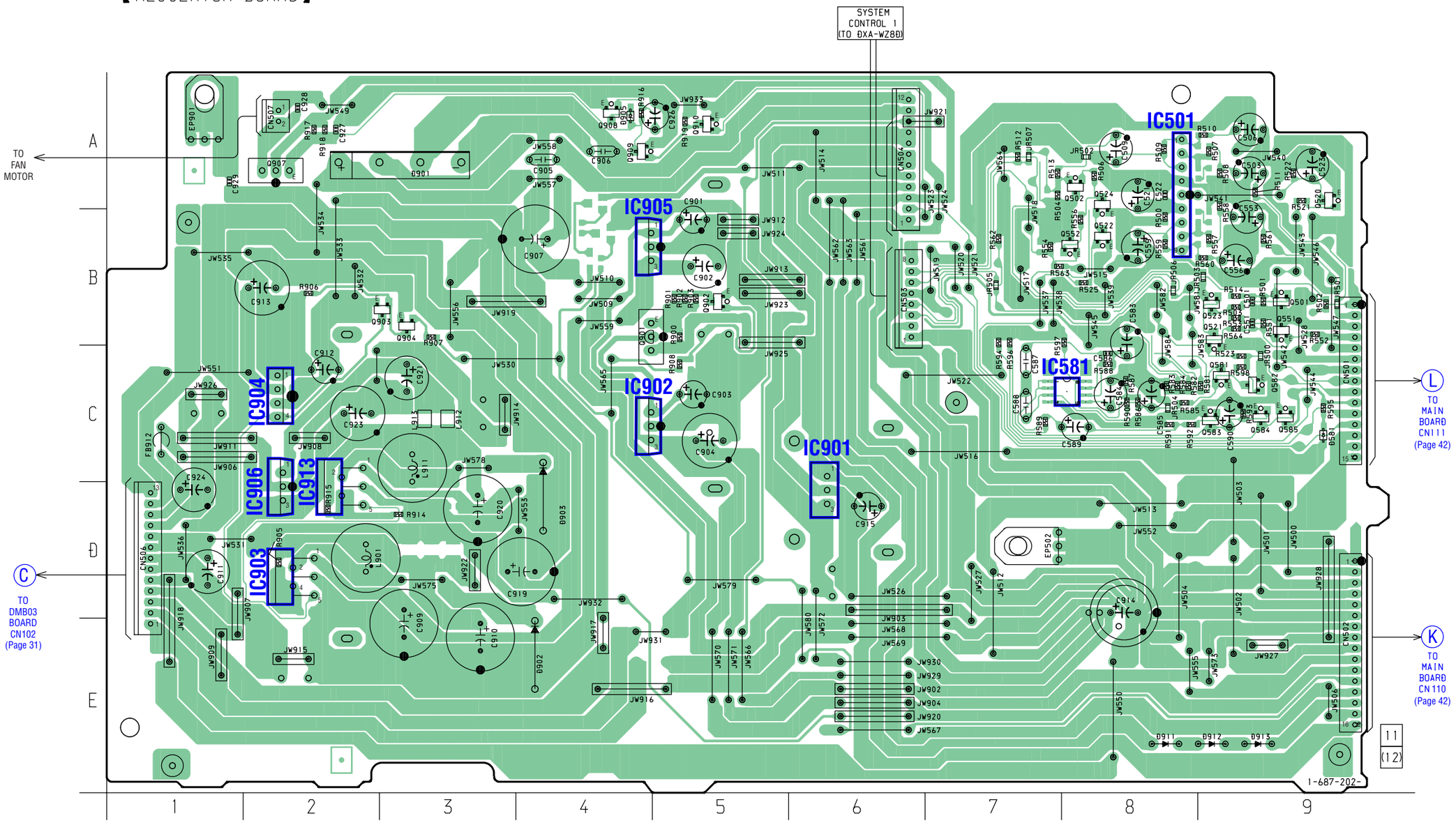
Ref. No.	Location
D608	B-6
D609	B-5
D610	A-5
D611	B-6
D612	A-6
D613	A-6

4–21. Schematic Diagram – LCD/Switch Section –



4–22. Printed Wiring Board – REGULATOR Board – • See page 23 for Circuit Boards Location. • **:** Uses unleaded solder.

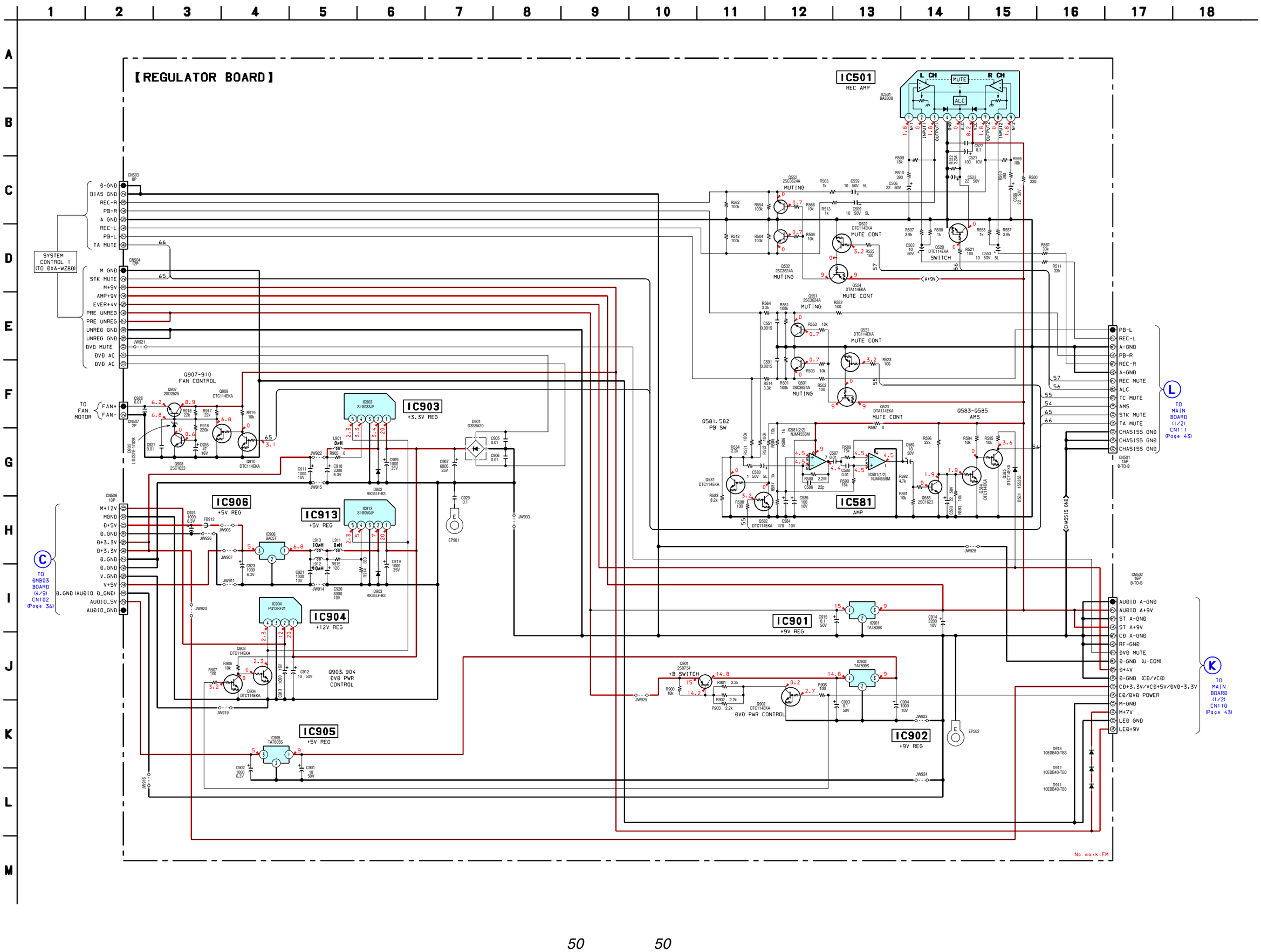
【REGULATOR BOARD】



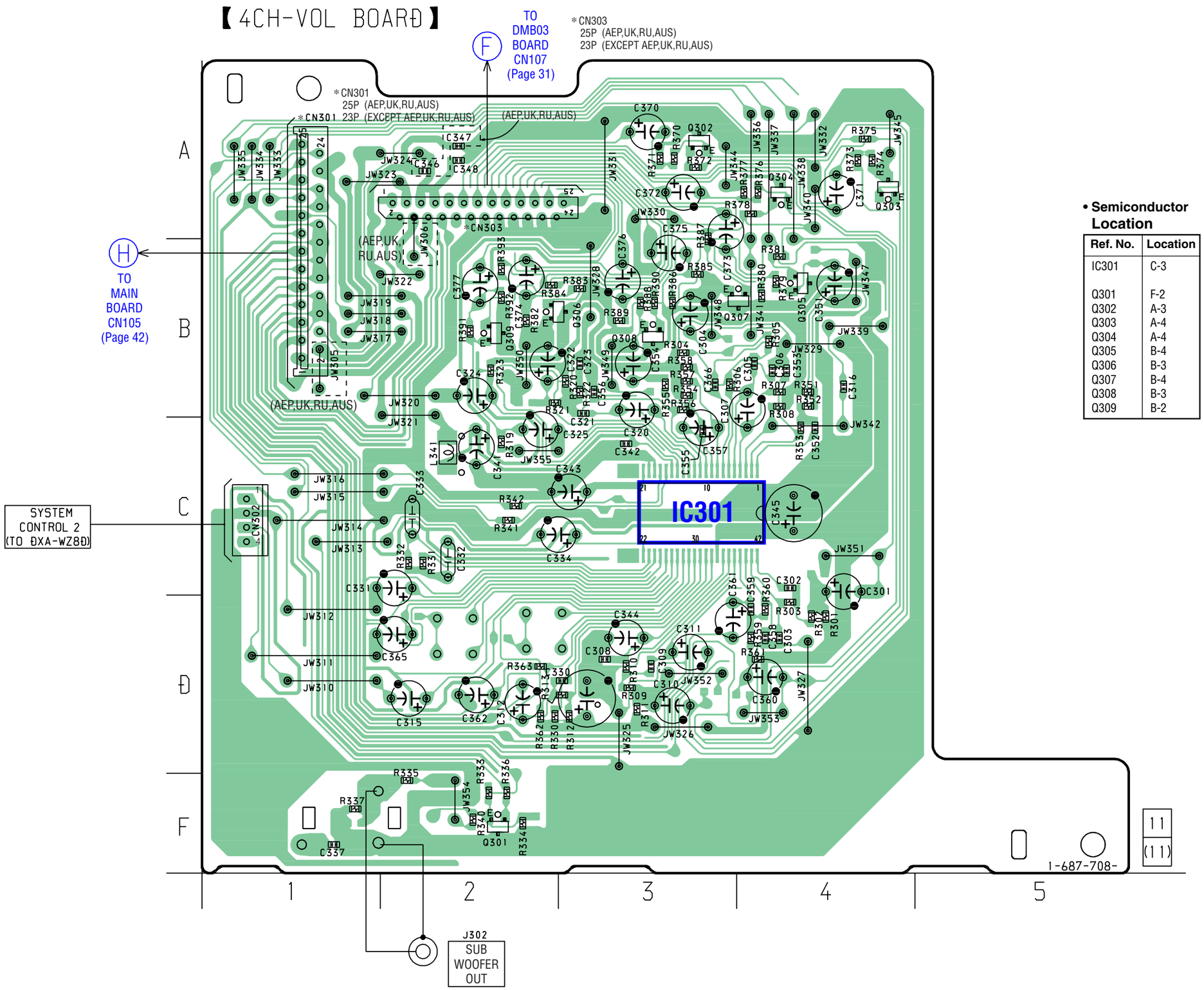
• **Semiconductor Location**

Ref. No.	Location
D581	C-9
D901	A-3
D902	E-4
D903	C-4
D905	A-4
D911	E-8
D912	E-9
D913	E-9
IC501	A-8
IC581	C-8
IC901	C-6
IC902	C-5
IC903	D-2
IC904	C-2
IC905	B-5
IC906	D-2
IC913	D-2
Q501	B-9
Q502	A-8
Q520	A-9
Q521	B-9
Q522	B-8
Q523	B-9
Q524	A-8
Q551	B-9
Q552	B-8
Q581	C-9
Q582	C-9
Q583	C-9
Q584	C-9
Q585	C-9
Q901	B-4
Q902	B-5
Q903	B-3
Q904	B-3
Q907	A-2
Q908	A-4
Q909	A-4
Q910	A-5

4–23. Schematic Diagram – REGULATOR Board – • See page 59 for IC Block Diagrams.



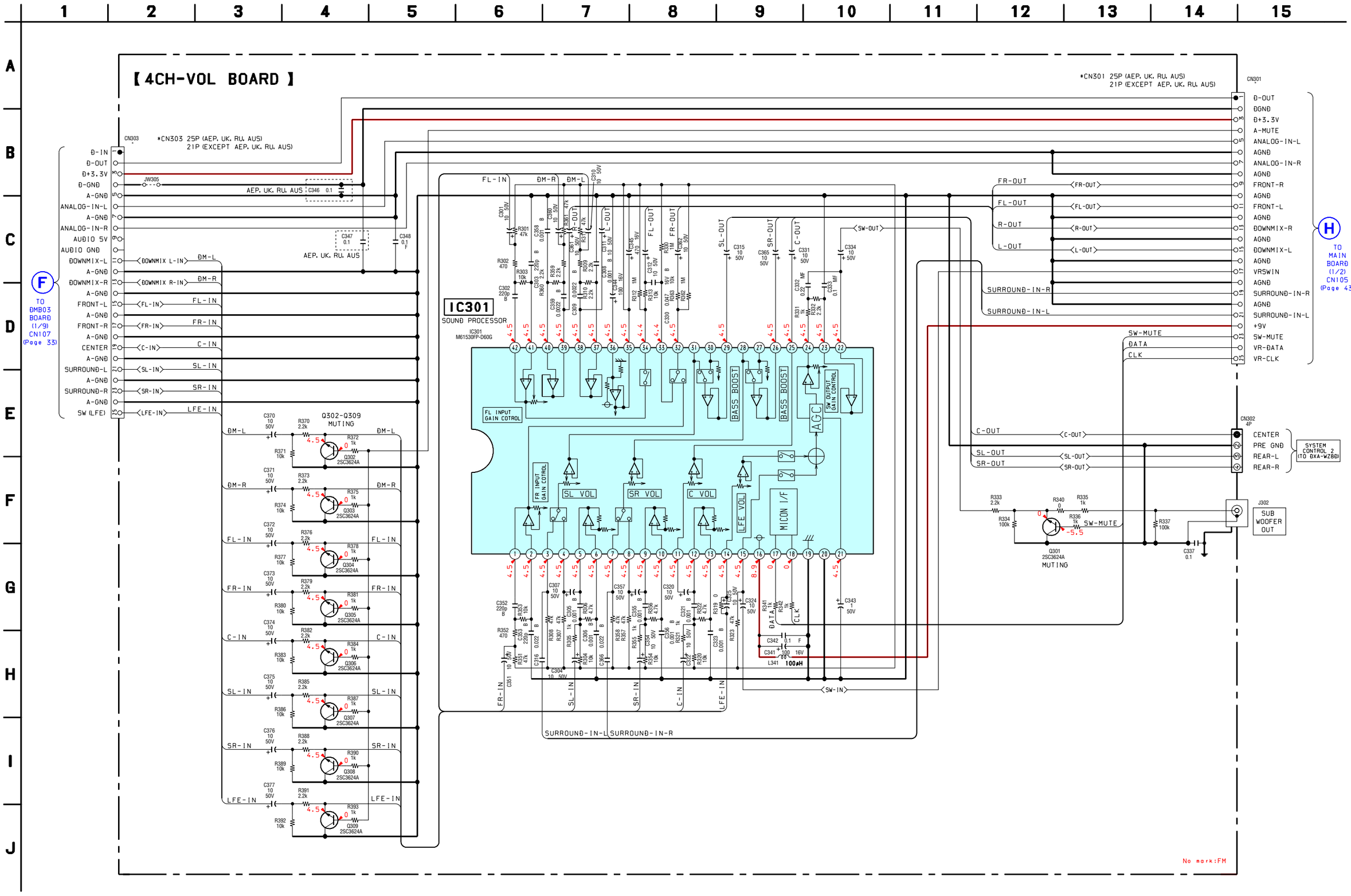
4–24. Printed Wiring Board – 4CH-VOL Board – • See page 23 for Circuit Boards Location. • : Uses unleaded solder.



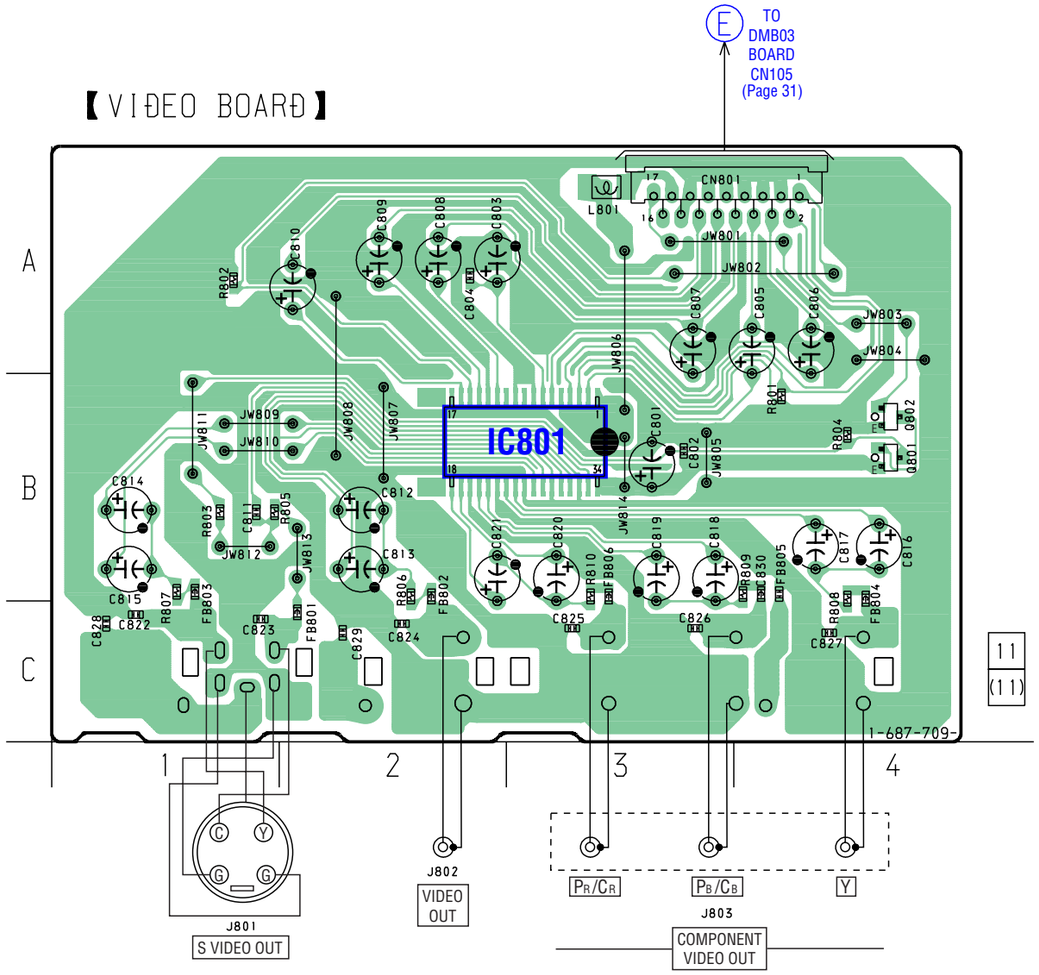
• **Semiconductor Location**

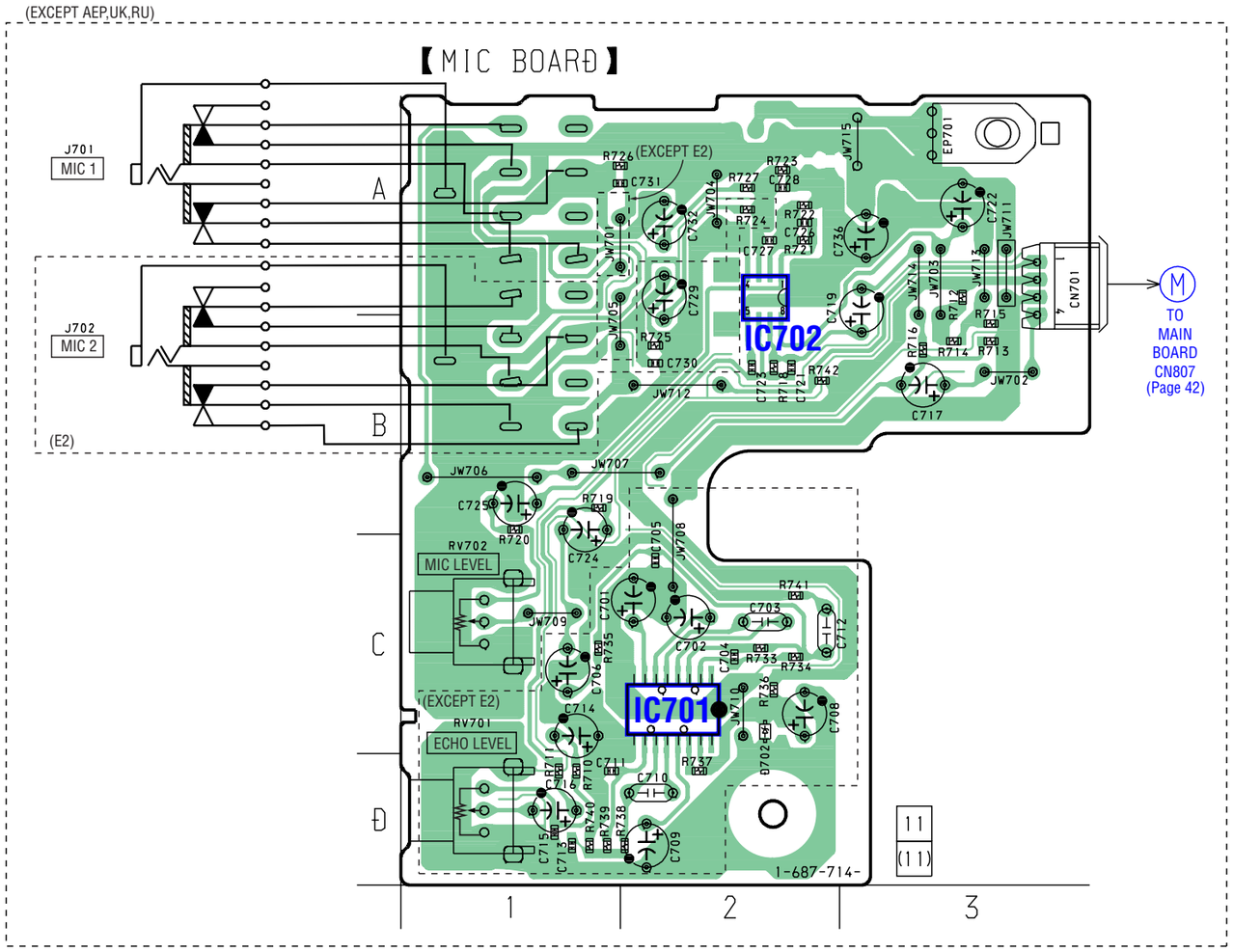
Ref. No.	Location
IC301	C-3
Q301	F-2
Q302	A-3
Q303	A-4
Q304	A-4
Q305	B-4
Q306	B-3
Q307	B-4
Q308	B-3
Q309	B-2

4–25. Schematic Diagram – 4CH-VOL Board –

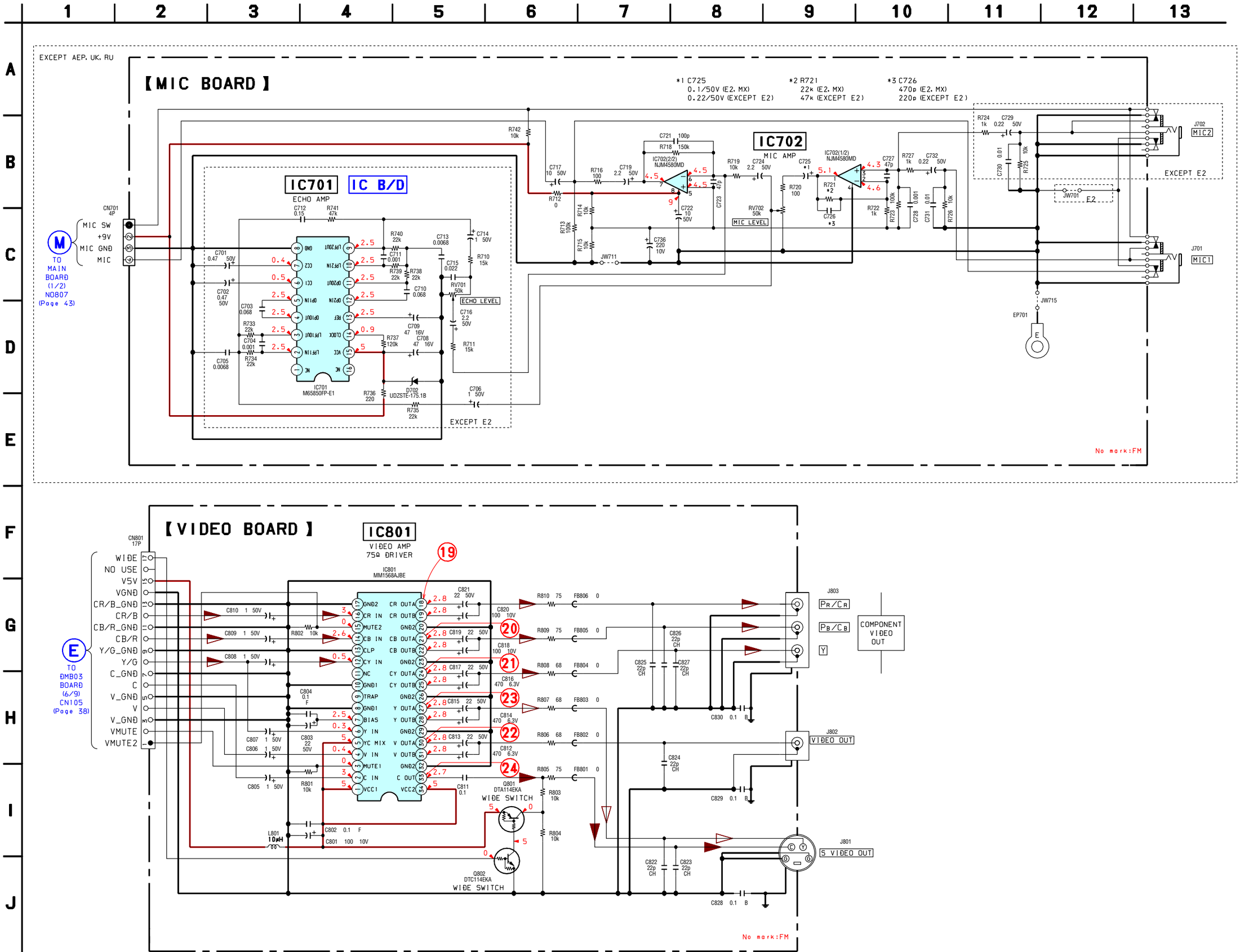


4–26. Printed Wiring Board – VIDEO/MIC Board – • See page 23 for Circuit Boards Location. • **:** Uses unleaded solder.



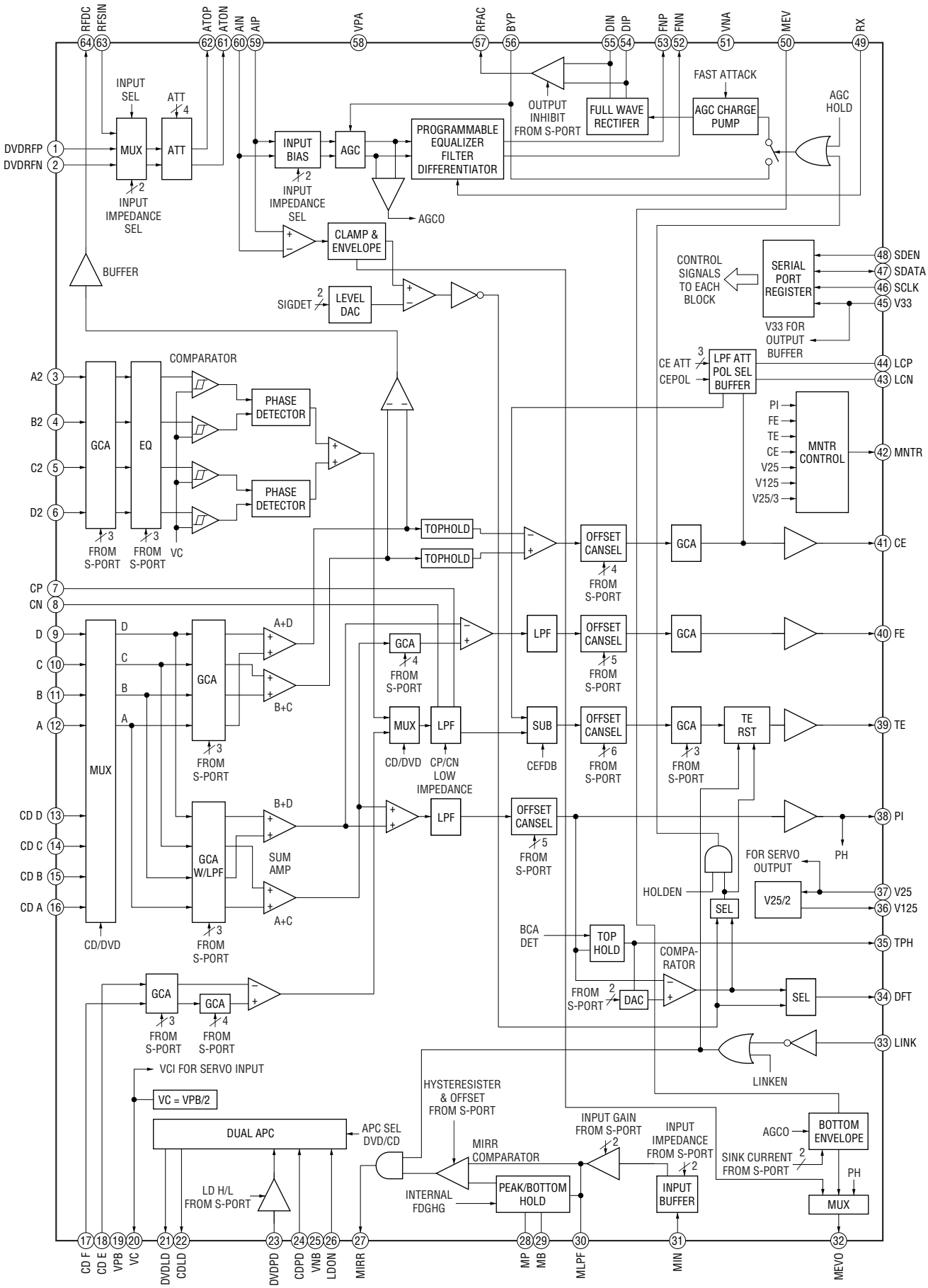


4–27. Schematic Diagram – VIDEO/MIC Board – • See page 24 for Waveforms.

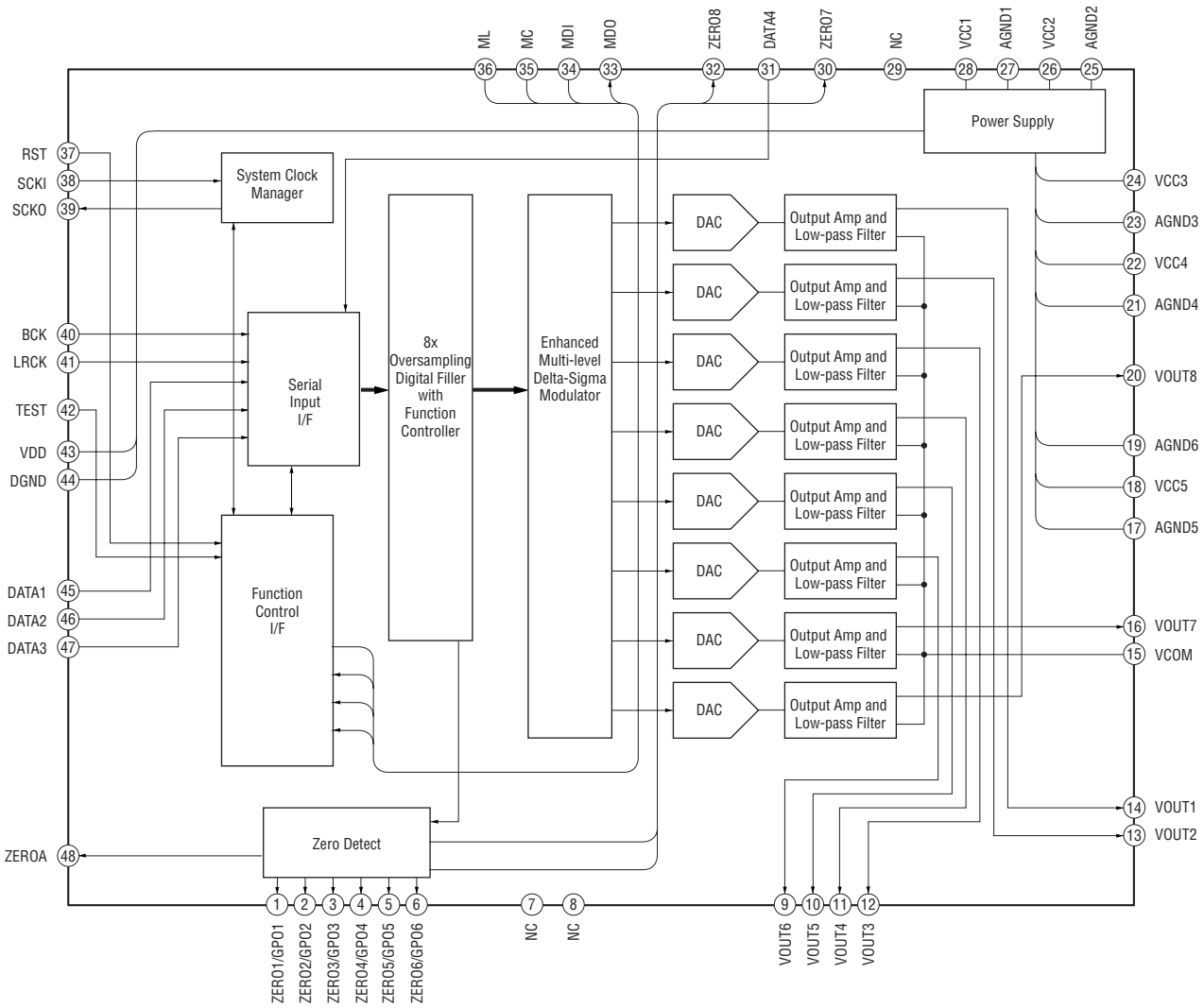


4-28. IC Block Diagrams

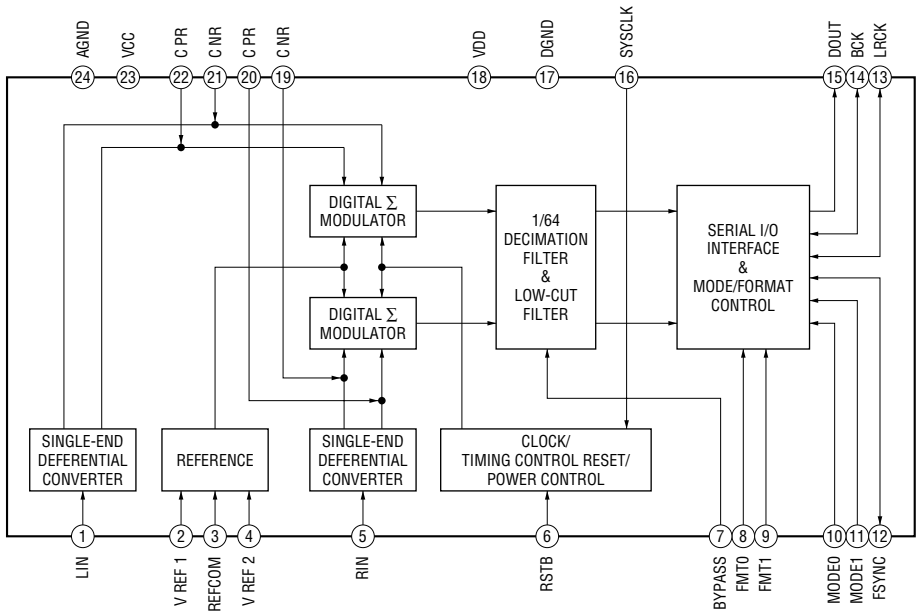
IC001 CXD1881AR (RF Board)



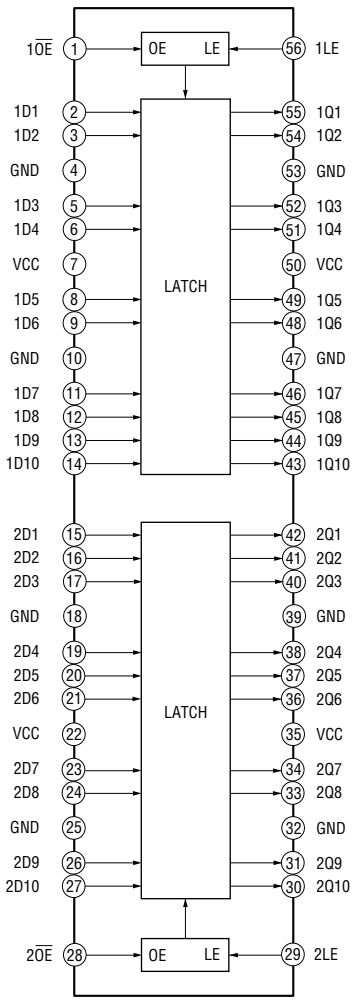
IC302 PCM1609KPTR (DMB03 Board)



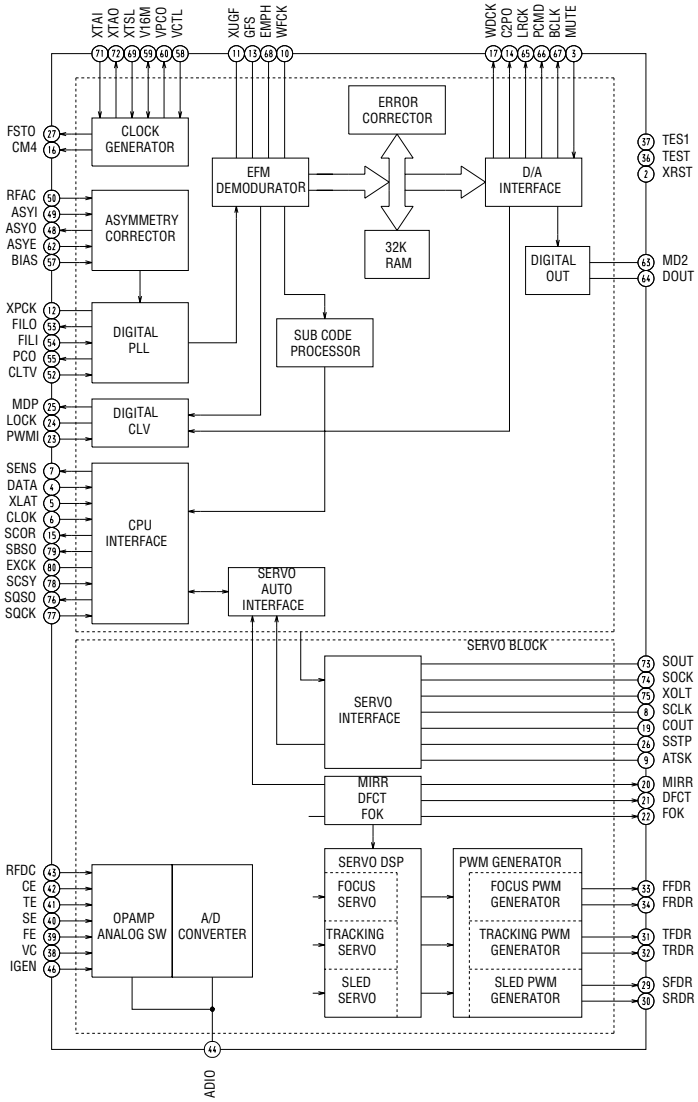
IC352 PCM1800E/2K (DMB03 Board)



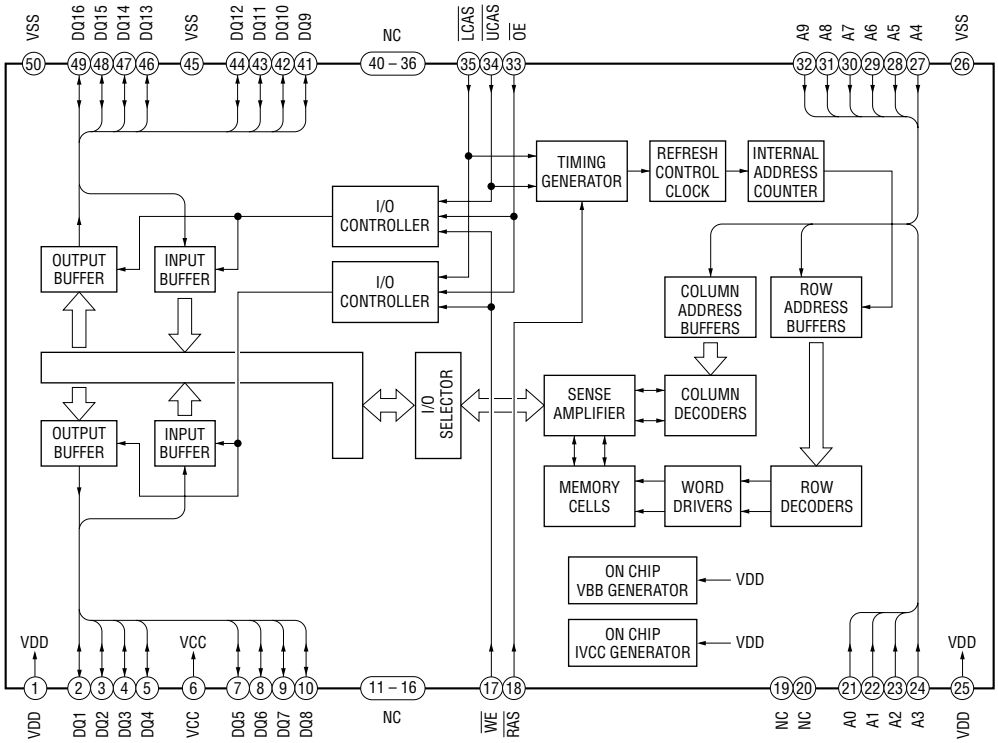
IC216 SN74ALVCH16841DGGR (DMB03 BOARD)



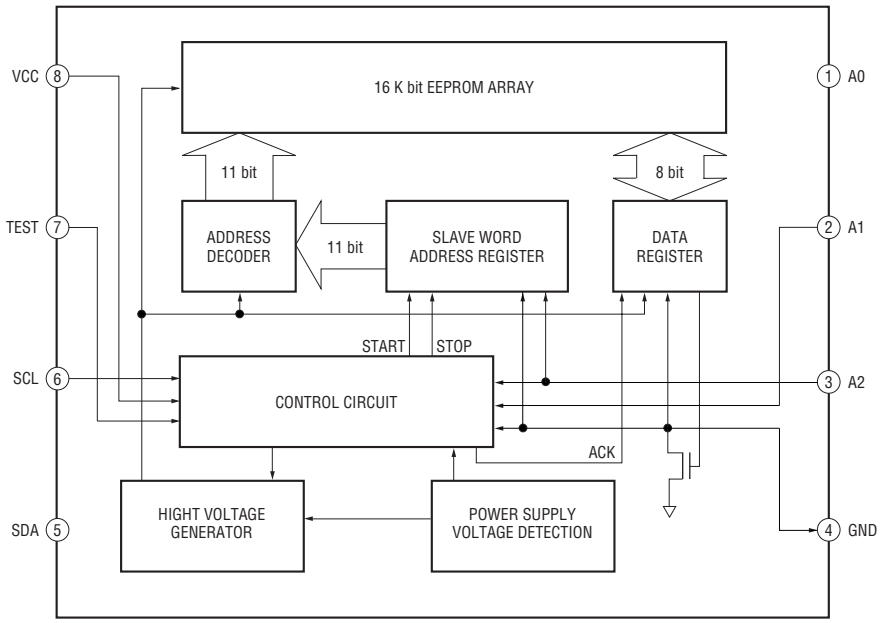
IC509 CXD3068Q (DMB03 Board)



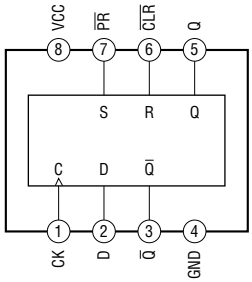
IC706 MSM51V18165F-60TSKR1 (DMB03 Board)



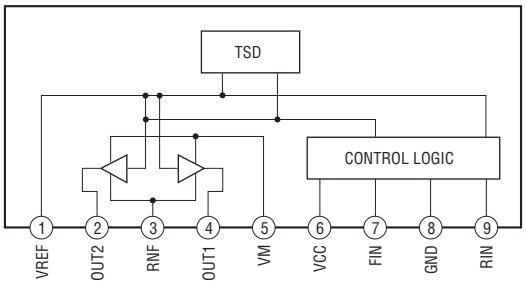
IC903 BR24C16F-E2 (DMB03 Board)



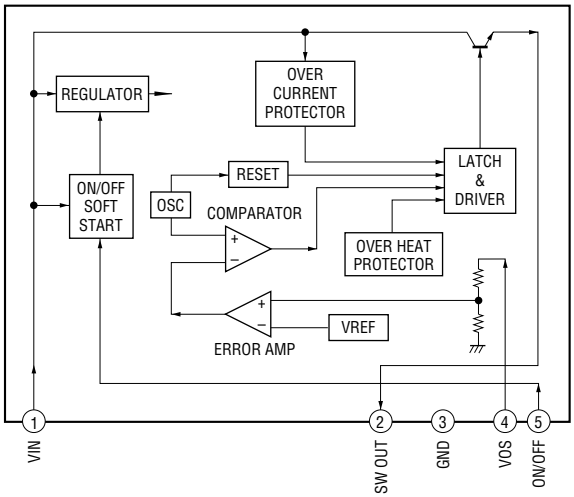
IC904 TC7W74FK-TE85L (DMB03 Board)



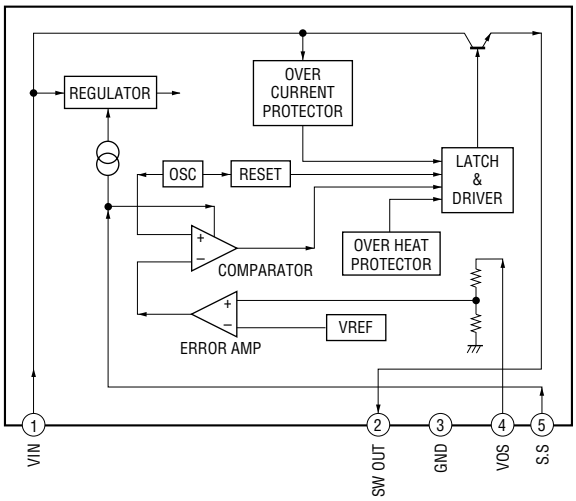
IC202 BA6956AN (MAIN Board)



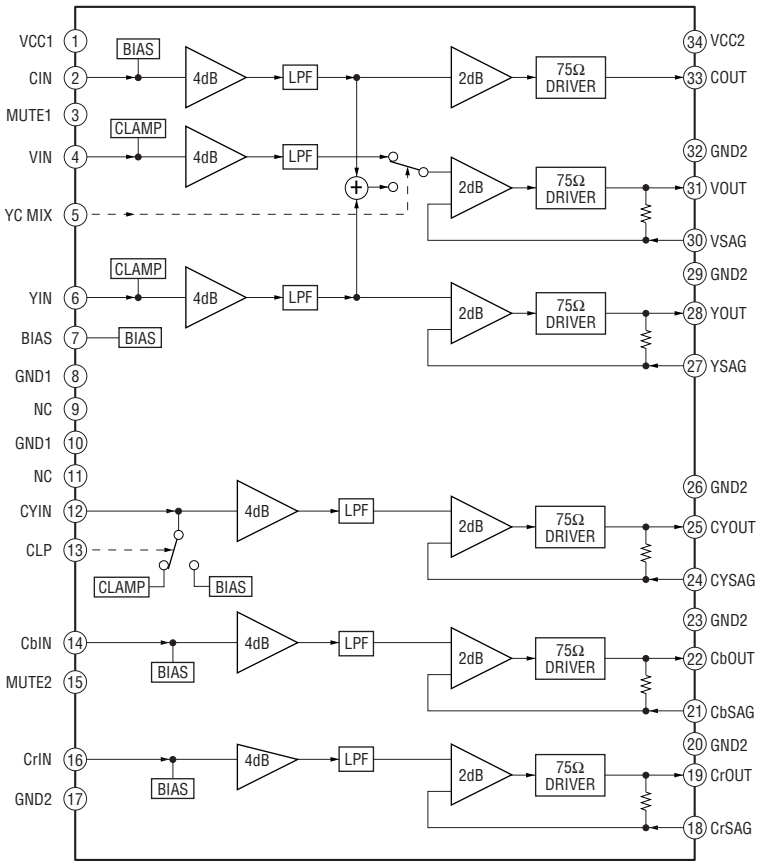
IC903 SI-8033JF (REGULATOR Board)



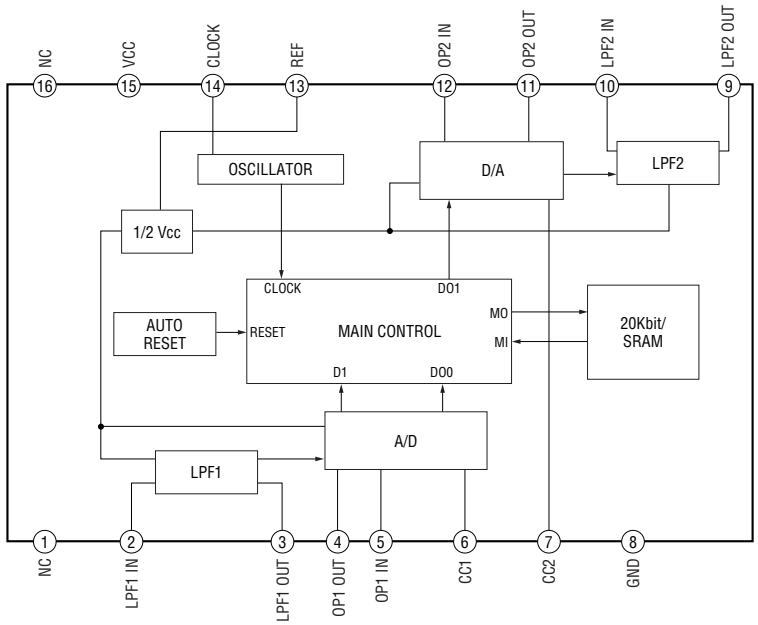
IC913 SI-8050JF (REGULATOR Board)



IC801 MM1568AJBE (VIDEO Board)



IC701 M65850FP-E1 (MIC Board)



4-29. IC Pin Function Description

• IC207 ZIVA5X-C1F (DVD SYSTEM PROCESSOR)(DMB03 BOARD)

Pin No.	Pin Name	I/O	Description
1	VDDP	—	Power supply terminal (+3.3V)(I/O signal)
2	HA1	I/O	Address bus
3	HAD15	I/O	Data bus (address signal multiplexed)
4	HAD14	I/O	Data bus (address signal multiplexed)
5	HAD13	I/O	Data bus (address signal multiplexed)
6	HAD12	I/O	Data bus (address signal multiplexed)
7	HAD11	I/O	Data bus (address signal multiplexed)
8	HAD10	I/O	Data bus (address signal multiplexed)
9	HAD9	I/O	Data bus (address signal multiplexed)
10	HAD8	I/O	Data bus (address signal multiplexed)
11	HAD7	I/O	Data bus (address signal multiplexed)
12	VDDP	—	Power supply terminal (+3.3V)(I/O signal)
13	GNDP	—	Ground terminal (I/O signal)
14	HAD6	I/O	Data bus (address signal multiplexed)
15	HAD5	I/O	Data bus (address signal multiplexed)
16	HAD4	I/O	Data bus (address signal multiplexed)
17	HAD3	I/O	Data bus (address signal multiplexed)
18	HAD2	I/O	Data bus (address signal multiplexed)
19	HAD1	I/O	Data bus (address signal multiplexed)
20	VDDP	—	Power supply terminal (+3.3V)(I/O signal)
21	GNDP	—	Ground terminal (I/O signal)
22	HAD0	I/O	Data bus (address signal multiplexed)
23	HDTACK	I/O	Acknowledge signal input/output for host data transfer (not used)
24	HIRQ0	I	Interrupt signal input for Medusa (not used)
25	WEH.UDS	I/O	Host upper data strobe signal output
26	WEL.LDS	I/O	Host lower data strobe signal output (not used)
27	HREAD	I/O	Read/write strobe signal output
28	GPIO0	I/O	Jig detection port (pull-up)
29	GND	—	Ground terminal (inside core)
30	VDD	—	Power supply terminal (+1.8V)(inside core)
31	GND25	—	Ground terminal (SDRAM I/O signal)
32	VDD25	—	Power supply terminal (+3.3V)(SDRAM I/O signal)
33	MA9	O	SDRAM address bus
34	MA8	O	SDRAM address bus
35	MA7	O	SDRAM address bus
36	MA6	O	SDRAM address bus
37	MA5	O	SDRAM address bus
38	MA4	O	SDRAM address bus
39	MA3	O	SDRAM address bus
40	MA2	O	SDRAM address bus
41	MA1	O	SDRAM address bus
42	MA0	O	SDRAM address bus
43	GND25	—	Ground terminal (SDRAM I/O signal)
44	VDD25	—	Power supply terminal (+3.3V)(SDRAM I/O signal)
45	MA10	O	SDRAM address bus
46	MA11	O	SDRAM address bus
47	BA1	O	SDRAM bank select 1 signal output
48	BA0	O	SDRAM bank select 0 signal output
49	MCS0	O	SDRAM chip select 0 signal output
50	MCS1	O	Not used

Pin No.	Pin Name	I/O	Description
51	MRAS	O	SDRAM row address strobe signal output
52	MCAS	O	SDRAM column address strobe signal output
53	MWE	O	SDRAM write enable signal output (“H” : read, “L” : write)
54	GND25	—	Ground terminal (SDRAM I/O signal)
55	VDD25	—	Power supply terminal (+3.3V)(SDRAM I/O signal)
56	MCLK	O	SDRAM Clock output
57	MD0	I/O	SDRAM data
58	MD1	I/O	SDRAM data
59	MD2	I/O	SDRAM data
60	MD3	I/O	SDRAM data
61	GND25	—	Ground terminal (SDRAM I/O signal)
62	MDQM0	O	Byte read /write mask signal 0 output
63	VDD25	—	Power supply terminal (+3.3V)(SDRAM I/O signal)
64	MD4	I/O	SDRAM data
65	MD5	I/O	SDRAM data
66	MD6	I/O	SDRAM data
67	MD7	I/O	SDRAM data
68	MD8	I/O	SDRAM data
69	MD9	I/O	SDRAM data
70	MD10	I/O	SDRAM data
71	MD11	I/O	SDRAM data
72	GND25	—	Ground terminal (SDRAM I/O signal)
73	MDQM1	O	Byte read /write mask signal 1 output
74	VDD25	—	Power supply terminal (+3.3V)(SDRAM I/O signal)
75	MD12	I/O	SDRAM data
76	MD13	I/O	SDRAM data
77	MD14	I/O	SDRAM data
78	MD15	I/O	SDRAM data
79	GND	—	Ground terminal (inside core)
80	VDD	—	Power supply terminal (+1.8V)(inside core)
81	MD16	I/O	SDRAM data
82	MD17	I/O	SDRAM data
83	MD18	I/O	SDRAM data
84	MD19	I/O	SDRAM data
85	GND25	—	Ground terminal (SDRAM I/O signal)
86	MDQM2	O	Byte read /write mask signal 2 output
87	VDD25	—	Power supply terminal (+3.3V)(SDRAM I/O signal)
88	MD20	I/O	SDRAM data
89	MD21	I/O	SDRAM data
90	MD22	I/O	SDRAM data
91	MD23	I/O	SDRAM data
92	MD24	I/O	SDRAM data
93	MD25	I/O	SDRAM data
94	MD26	I/O	SDRAM data
95	MD27	I/O	SDRAM data
96	GND25	—	Ground terminal (SDRAM I/O signal)
97	MDQM3	O	Byte read /write mask signal 3 output
98	VDD25	—	Power supply terminal (+3.3V)(SDRAM I/O signal)
99	MD28	I/O	SDRAM data
100	MD29	I/O	SDRAM data

Pin No.	Pin Name	I/O	Description
101	MD30	I/O	SDRAM data
102	MD31	I/O	SDRAM data
103	GND25	—	Ground terminal (SDRAM I/O signal)
104	VDD25	—	Power supply terminal (+3.3V)(SDRAM I/O signal)
105	VCLK	I/O	System clock (not used)
106	XCK_I/O_SEL	I/O	5.1ch/downmix switch signal output
107	VS	O	S1 signal output (not used)
108	I/P SW	O	Progressive/interlace switch signal output (not used)
109	CDSEL	O	CD-DA selection signal output (not used)
110	MREQ	O	Audio muting request signal output
111	VDDP	—	Power supply terminal (+3.3V)(I/O signal)
112	GNDP	—	Ground terminal (I/O signal)
113	MDI	O	Serial data output to the D/A converter (IC302)
114	MC	O	Serial data clock output to the D/A converter (IC302)
115	ML	O	Latch enable signal output to the D/A converter (IC302)
116	HIRQ2_	I	Busy signal input from the EEPROM (IC204)
117	VDAC_4B	—	Video DAC bias bit 4 (connected to the ground)
118	VDAC_VDD4	—	Power supply terminal (+3.3V)(Video DAC 4)
119	VDAC_4	O	VDAC output 4
120	VDAC_3B	—	Video DAC bias bit 3 (connected to the ground)
121	VDAC_VDD3	—	Power supply terminal (+3.3V)(Video DAC 3)
122	VDAC_3	O	VDAC output 3
123	VDAC_2B	—	Video DAC bias bit 2 (connected to the ground)
124	VDAC_VDD2	—	Power supply terminal (+3.3V)(Video DAC 2)
125	VDAC_2	O	VDAC output 2
126	VDAC_1B	—	Video DAC bias bit 1 (connected to the ground)
127	VDAC_VDD1	—	Power supply terminal (+3.3V)(Video DAC 1)
128	VDAC_1	O	VDAC output 1 (not used)
129	VDAC_0B	—	Video DAC bias bit 0 (connected to the ground)
130	VDAC_VDD0	—	Power supply terminal (+3.3V)(Video DAC 0)
131	VDAC_0	O	VDAC output 0
132	VDAC_DVSS	—	Ground terminal (Video DAC digital system)
133	VDAC_DVDD	—	Power supply terminal (+3.3V)(Video DAC digital system)
134	VDAC_REFVDD	—	Power supply terminal (Video DAC reference)
135	VDAC_REF	I	Reference voltage input terminal(for Video DAC)
136	VDAC_REFVSS	—	Ground terminal (Video DAC reference)
137	XVSS	—	Ground terminal (crystal oscillator)
138	XOUT	O	Crystal oscillation signal output (not used)
139	XIN	I	Crystal oscillation signal input
140	XVDD	—	Power supply terminal (crystal oscillator)
141	AVSS2	—	Ground terminal (analog PLL)
142	AVDD2	—	Power supply terminal (+3.3V)(analog PLL)
143	AVDD1	—	Power supply terminal (+3.3V)(analog PLL)
144	AVSS1	—	Ground terminal (analog PLL)
145	VDD	—	Power supply terminal (+1.8V)(inside core)
146	GND	—	Ground terminal (inside core)
147	XCK	O	Audio system clock output
148	LRCK	O	LRCK signal output for audio
149	BCK	O	BCK signal output for audio
150	DATA0(DM)	O	Audio data(Down Mix signal) output

Pin No.	Pin Name	I/O	Description
151	DATA1(FLR)	O	Audio data(Front L/R signal) output
152	VDDP	—	Power supply terminal (+3.3V)(I/O signal)
153	GNDP	—	Ground terminal (I/O signal)
154	DATA2(SLR)	O	Audio data(Rear L/R signal) output
155	DATA3(CSW)	O	Audio data(Center/Subwoofer signal) output
156	IEC958	O	S/PDIF signal (not used)
157	DAI_DATA	I	Data input from ADC (not used)
158	DAI_BCK	I	BCK signal input from ADC (not used)
159	DAI_LRCK	I	LRCK signal input from ADC (not used)
160	I2C_CL	I/O	I2C clock bus
161	I2C_DA	I/O	I2C data bus
162	CS(ZIVA_E2P)	O	Chip select signal output to the EEPROM (IC204)
163	RXD1	I	Serial data input for check jig
164	TXD1	O	Serial data output for check jig
165	WRITE_CTRL(ZIVA_E2P)	O	Write control signal output to the EEPROM (IC204)
166	GNDP	—	Ground terminal (I/O signal)
167	VDDP	—	Power supply terminal (+3.3V)(I/O signal)
168	SDDATA7	I	SDBus data7 input
169	SDDATA6	I	SDBus data6 input
170	SDDATA5	I	SDBus data5 input
171	SDDATA4	I	SDBus data4 input
172	GND	—	Ground terminal (inside core)
173	VDD	—	Power supply terminal (+1.8V)(inside core)
174	SDDATA3	I	SDBus data3 input
175	SDDATA2	I	SDBus data2 input
176	SDDATA1	I	SDBus data1 input
177	SDDATA0	I	SDBus data0 input
178	SDREQ	O	SDBus data request signal output
179	SDEN	I	SDBus data enable signal input
180	GNDP	—	Ground terminal (I/O signal)
181	VDDP	—	Power supply terminal (+3.3V)(I/O signal)
182	SDERROR	I	SDBus data error signal input
183	SDCLK	I	SDBus data clock input
184	HIRQ1	I	Interrupt signal input from the mechanism controller (IC901)
185	DRVCLK	I	Serial data clock input from the mechanism controller (IC901)
186	DRVTX	I	Serial data input from the mechanism controller (IC901) and the EEPROM (IC204)
187	DRVRX	O	Serial data output to the mechanism controller (IC901) and the EEPROM (IC204)
188	DRVRDY	I	Ready signal input from the mechanism controller (IC901)
189	VNW	—	Power supply for 5V tolerance voltage input
190	ALE	O	Latch enable signal output for address data demux
191	RST_SPC	O	Reset signal output to the mechanism controller (IC901)
192	INT/EXT	O	Input selection signal output for SDBus or ADC
193	HCS2	O	Chip select signal output for Medusa (not used)
194	HCS1	I/O	Not used
195	HCS0	O	Chip select signal output to the external ROM (IC206)
196	VDDP	—	Power supply terminal (+3.3V)(I/O signal)
197	TRST	I	Reset signal input
198	TDO	O	Data output
199	TDI	I	Data input
200	TMS	I	TMS signal input

Pin No.	Pin Name	I/O	Description
201	TCK	I	TCK signal input
202	RESET	I	ZIVA reset input
203	BUS CLK	I/O	Not used
204	GND	—	Ground terminal (inside core)
205	VDD	—	Power supply terminal (+1.8V)(inside core)
206	HA3	I/O	Address bus 3
207	HA2	I/O	Address bus 2
208	GNDP	—	Ground terminal (I/O signal)

• IC401 M30622MGN-B22FP (AEP, UK, RU, E2, MX) , -B12FP (EXCEPT AEP, UK, RU, E2, MX)(SYSTEM CONTROL)(MAIN BOARD)

Pin No.	Pin Name	I/O	Description
1	MIC-CHECK	I	Microphone detection signal input
2	NO USE	—	Not used
3	NO USE	—	Not used (connected to the ground)
4	SIRCS	I	SIRCS signal input fromthe remote sensor (IC601)
5	DSP DIN	O	Serial data output to the DSP (IC601)
6	DSP DOUT	I	Serial data input from the DSP (IC601)
7	DSP CLK	O	Serial clock output to the DSP (IC601)
8	BYTE	—	External data bus width selection terminal
9	CN VSS	—	Processor modes switch terminal
10	XC-IN	I	Sub clock input terminal (32.768kHz)
11	XC-OUT	O	Sub clock output terminal (32.768kHz)
12	RESET	I	System reset signal input
13	X-OUT	O	Main system clock output terminal (16MHz)
14	VSS	—	Ground terminal
15	X-IN	I	Main system clock input terminal (16MHz)
16	VCC	—	Power supply terminal (+3.3V)
17	NMI	I	NMI input terminal (fixed at “H”)
18	RDS INT	I	RDS INT signal input
19	NO USE	—	Not used (connected to the ground)
20	AC-CUT	I	AC cut detection signal input
21	DSP XRST	O	Reset signal output to the DSP (IC601)(“L” : reset)
22	DSP HCE	O	Chip select signal output to the DSP (IC601)
23	DSP BST	O	Boot strap signal output to the DSP (IC601)
24	DSP ACK	I	Acknowledge signal input from the DSP (IC601)
25	DSP ERROR	I	ERROR signal input from the DSP (IC601)
26	DSP EXLOCK	O	PLL lock error and data error flag signal output to the DSP (IC601)
27	DSP PM	O	PLL reset signal output to the DSP (IC601)
28	DSP DECODE	—	Not used
29	IIC-CLK	O	IIC serial clock output
30	IIC-DATA	O	IIC serial data output
31	NO USE	—	Not used (connected to the ground)
32	NO USE	—	Not used (connected to the ground)
33	A-MUTE	O	Audio muting signal output
34	SOFT-TEST	—	Soft test teminal
35	MUTE REQ	I	Audio muting request signal input from the DVD system processor (IC207)
36	IF-VIDEO MUTE2	O	Video muting signal output
37	IF-VIDEO MUTE1	O	Video muting signal output
38	IF-DVD-RESET	O	System reset signal output to the DVD system processor (IC207)
39	IF-DVD-POWER	O	DVD power supply control signal output (“H” : on, “L” : off)
40	RDS-DATA	I	RDS data input
41	ST-MUTE	O	Muting signal output to the tuner
42	STEREO	I	Stereo detection signal input from the tuner (“L” : in, “H” : off)
43	TUNED	I	Tuner tuned status signal input from the tuner (“L” : in, “H” : off)
44	ST-CE	O	Tuner chip enable signal output to the tuner
45	ST-DOUT	O	Data output to the tuner
46	ST-DIN	I	Data input from the tuner
47	ST-CLK	O	Clock output to the tuner
48	SW MUTE	O	Sub woofer muting signal output
49	VR-CLK	O	Clock output to the audio signal processor (IC301)
50	VR-DATA	Oº	Data output to the audio signal processor (IC301)

Pin No.	Pin Name	I/O	Description
51	VOL-CLK	O	Clock output to the audio signal processor (IC101)
52	VOL-DATA	O	Data output to the audio signal processor (IC101)
53	CN CHECK	I	Connection check signal input (from DXA-WZ8D)
54	AMS-IN	I	AMS signal input (“L” : in, “H” : off)(from DXA-WZ8D)
55	TC LINE-MUTE	O	TC line muting signal output (“H” : on, “L” : off)(to DXA-WZ8D)
56	ALC	O	ALC signal output (“L” : on, “H” : off)(to DXA-WZ8D)
57	TC REC-MUTE	O	TC REC muting signal output (“L” : on, “H” : off)(to DXA-WZ8D)
58	IO-EXP DATA OUT	O	Data output to the I/O expander (IC251, DXA-WZ8D)
59	IO-EXP DATA IN	I	Data input from the I/O expander (IC251, DXA-WZ8D)
60	IO-EXP LAT	O	Latch signal output to the I/O expander (IC251, DXA-WZ8D)
61	IO-EXP CLK	O	Clock output to the I/O expander (IC251, DXA-WZ8D)
62	VCC	—	Power supply terminal
63	HEAD-PHONE IN	I	Headphone detection signal input
64	VSS	—	Ground terminal
65	STK MUTE	O	Muting signal output to the power amplifier (to DXA-WZ8D)
66	TA MUTE	O	TA line muting signal output (“H” : on, “L” : off)(to DXA-WZ8D)
67	VOL-A	I	Encoder signal input from the volume encoder
68	VOL-B	I	Encoder signal input from the volume encoder
69	LED -TUNER/BAND	O	TUNER/BAND LED control signal output
70	LED-DVD	O	DVD LED control signal output
71	LED-AROUND PLAY	O	PLAY LED control signal output
72	LED-TAPE A/B	O	TAPE A/B LED control signal output
73	DISPLAY KEY	I	DISPLAY key signal input
74	POWER KEY	I	POWER key signal input
75	LED-MD (VIDEO)	O	MD (VIDEO) LED control signal output
76	LED-STANDBY	O	STANDBY LED control signal output
77	HP/REC OUT MUTE	O	Headphone/line out muting signal output (“L” : on, “H” : off)
78	BACK-LIGHT 3	O	LCD back light 3 LED control signal output (blue)
79	BACK-LIGHT 2	O	LCD back light 2 LED control signal output (green)
80	BACK-LIGHT 1	O	LCD back light 1 LED control signal output (red)
81	LCD-DATA	O	Data output to the liquid crystal display
82	LCD-CLK	O	Clock output to the liquid crystal display
83	LCD-ENB	O	Chip select signal output to the liquid crystal display
84	LCD-RS	O	Reset signal output to the liquid crystal display
85	LOAD-OUT	O	Loading motor control signal output
86	LOAD-IN	O	Loading motor control signal output
87	OPEN-SW	I	OPEN switch signal input
88	CLOSE-SW	I	CLOSE switch signal input
89	A SHUT	I	Reel pulse signal input from the deck A (from DXA-WZ8D)
90	B SHUT	I	Reel pulse signal input from the deck B (from DXA-WZ8D)
91	A TRG	O	Trigger control signal output to the deck A (“H” : on)(to DXA-WZ8D)
92	B TRG	O	Trigger control signal output to the deck B (“H” : on)(to DXA-WZ8D)
93	SPEC-IN	I	Spec setting terminal
94	AD-KEY2	I	Key input 2 (A/D)
95	AD-KEY1	I	Key input 1 (A/D)
96	AVSS	—	Ground terminal (A/D converter)
97	VACS IN	I	VACS signal input
98	VREF	—	Voltage reference terminal (A/D converter)
99	AVCC	—	Power supply terminal (A/D converter)
100	LCD RESET	O	Reset signal output to the liquid crystal display

• IC901 CXP973064-226R (MECHANISM CONTROLLER)(DMB03 BOARD)

Pin No.	Pin Name	I/O	Description
1	NO USE	O	Not used
2	SDEN	O	Serial data enable signal output to DVD/CD RF amplifier
3	DOCTRL/ ISBTEST	O	Digital out on/off control signal output to the digital signal processor "L": digital out off, "H": digital out on
4	XPST 2753	O	Not used
5	SDA EEP	I/O	Two-way data bus with the EEPROM
6	MNT1	I	EEPROM ready signal input from the DVD decoder
7	FCS JMP 1	O	Focus jump 1 signal output to the motor/coil driver
8	FCS JMP 2	O	Focus jump 2 signal output to the motor/coil driver
9	SENS CD	I	Internal status (SENSE) signal input from the digital signal processor
10	CDSP2	O	Loading motor drive signal (loading in direction) output terminal
11	CDSP4	O	Loading motor drive signal (loading out direction) output terminal
12	XCS DVD	O	Chip select signal output to the DVD decoder
13	VSS	—	Ground terminal (digital system)
14 to 21	D0 to D7	I/O	Two-way data bus with the DVD decoder
22	INIT0 DVD	I	Interrupt signal input from the DVD decoder
23	INIT1 DVD	I	Interrupt signal input from the DVD decoder
24	MSCK SAMBA	O	Serial data transfer clock signal output to the DSD decoder
25	XRST 1882	O	Reset signal output to the DVD decoder "L": reset
26	SCOR	I	Subcode sync (S0+S1) detection signal input from the digital signal processor
27	LAT CD	O	Serial data latch pulse signal output to the digital signal processor
28	LD ON	O	Laser diode on/off control signal output to the DVD/CD RF amplifier "L": laser diode off, "H": laser diode on
29	MIRR	I	Mirror signal input from the digital signal processor
30	COUT CD	I	Numbers of track counted signal input from the digital signal processor
31	INLIM	I	Detection signal input from limit in switch The optical pick-up is inner position when "H"
32	CS ZIVA	O	Chip select signal output to the DVD system processor
33	SI ZIVA	I	Serial data input from the DVD system processor
34	SO ZIVA	O	Serial data output to the DVD system processor
35	SCK ZIVA	O	Serial data transfer clock signal output to the DVD system processor
36	DRVIRQ	O	Interrupt request signal output to the DVD system processor
37	DRVRDY	O	Ready signal output to the DVD system processor
38	RST	I	System reset signal input from the DVD system processor "L": reset
39	VSS	—	Ground terminal (digital system)
40	XTAL	I	System clock input terminal (20 MHz)
41	EXTAL	O	System clock output terminal (20 MHz)
42	VDD	—	Power supply terminal (+3.3V) (digital system)
43, 44	SLED A, SLED B	O	Sled motor drive signal output
45	SCK DSD	O	Output terminal for offset adjustment of APEO
46	SDOUT DSD	O	Serial data output to the DSD decoder
47	SDIN DSD	I	Serial data input from the DSD decoder
48	READY DSD	I	Ready signal input from the DSD decoder "L": ready
49	DATA CD	O	Serial data output to the digital signal processor
50	CLOK CD	O	Serial data transfer clock signal output to the digital signal processor
51	XMSLAT	O	Serial data latch pulse signal output to the DSD decoder
52	SQSO	I	Subcode Q data input from the digital signal processor
53	MUTE DSD	O	Muting on/off control signal output to the DSD decoder "H": muting on
54	SQCK	O	Subcode Q data reading clock signal output to the digital signal processor
55	VSS	—	Ground terminal (digital system)
56	CONTROL 4	I	Disc tray in detection signal input terminal Not used

Pin No.	Pin Name	I/O	Description
57	CONTROL 2	I	Disc tray out detection signal input terminal Not used
58	GFS DVD	I	Guard frame sync signal input from the DVD decoder
59	MUTE CD	O	Muting on/off control signal output to the digital signal processor "H": muting on
60	MUTE 2D	O	Muting on/off control signal output to the motor/coil driver "H": muting on
61	SLED	I	Sled motor servo drive PWM signal input terminal
62	FG	I	Spindle motor control signal input
63	SP ON	O	Muting on/off control signal output to the motor/coil driver "H": muting on
64	JIT	I	Jitter signal input
65	TE	I	Tracking error signal input from the DVD/CD RF amplifier
66	PI	I	Pull in signal input from the DVD/CD RF amplifier
67	FE	I	Focus error signal input from the DVD/CD RF amplifier
68	AVSS	—	Ground terminal (for A/D converter)
69	AVREF	I	Reference voltage input terminal (for A/D converter)
70	AVDD	—	Power supply terminal (+3.3V) (for A/D converter)
71	GFS CD	I	Guard frame sync signal input from the digital signal processor
72	SCLK CD	O	SENSE serial data reading clock signal output to the digital signal processor
73	TSD	O	Thermal shut down signal output to the motor/coil driver
74	FOK CD	I	Focus OK signal input from the digital signal processor
75	LOCK CD	I	GFS is sampled by 460 Hz "H" input when GFS is "H"
76	LDSEL	O	Laser diode selection signal output
77	SACD/DVD	O	"SACD/DVD selection signal output "L": DVD, "H": SACD"
78	I2C SIO	I/O	Communication data bus with the DVD system processor and system controller
79	I2C SCL	I/O	Communication data reading clock signal input or transfer clock signal output with the DVD system processor and system controller
80	RXD	I	Serial data input from the RS-232C (for check)
81	TXD	O	Serial data output to the RS-232C (for check)
82	SDCLK RF	O	Serial data transfer clock signal output to the DVD/CD RF amplifier
83	SDATA RF	I/O	Two-way data bus with the DVD/CD RF amplifier
84	XWR	O	Write strobe signal output to the DVD decoder
85	XRD	O	Read strobe signal output to the DVD decoder
86	(PWE)	—	Not used
87	VDD	—	Power supply terminal (+3.3V) (digital system)
88	VSS	—	Ground terminal (digital system)
89 to 96	A0 to A7	O	Address signal output to the DVD decoder
97	DSAVE	O	Motor/coil driver power save control signal output terminal
98	XDRST	O	Reset signal output to the digital signal processor and DSD decoder "L": reset
99	WP EEP	O	Write protect signal output to the EEPROM
100	SCL EEP	O	Clock signal output to the EEPROM

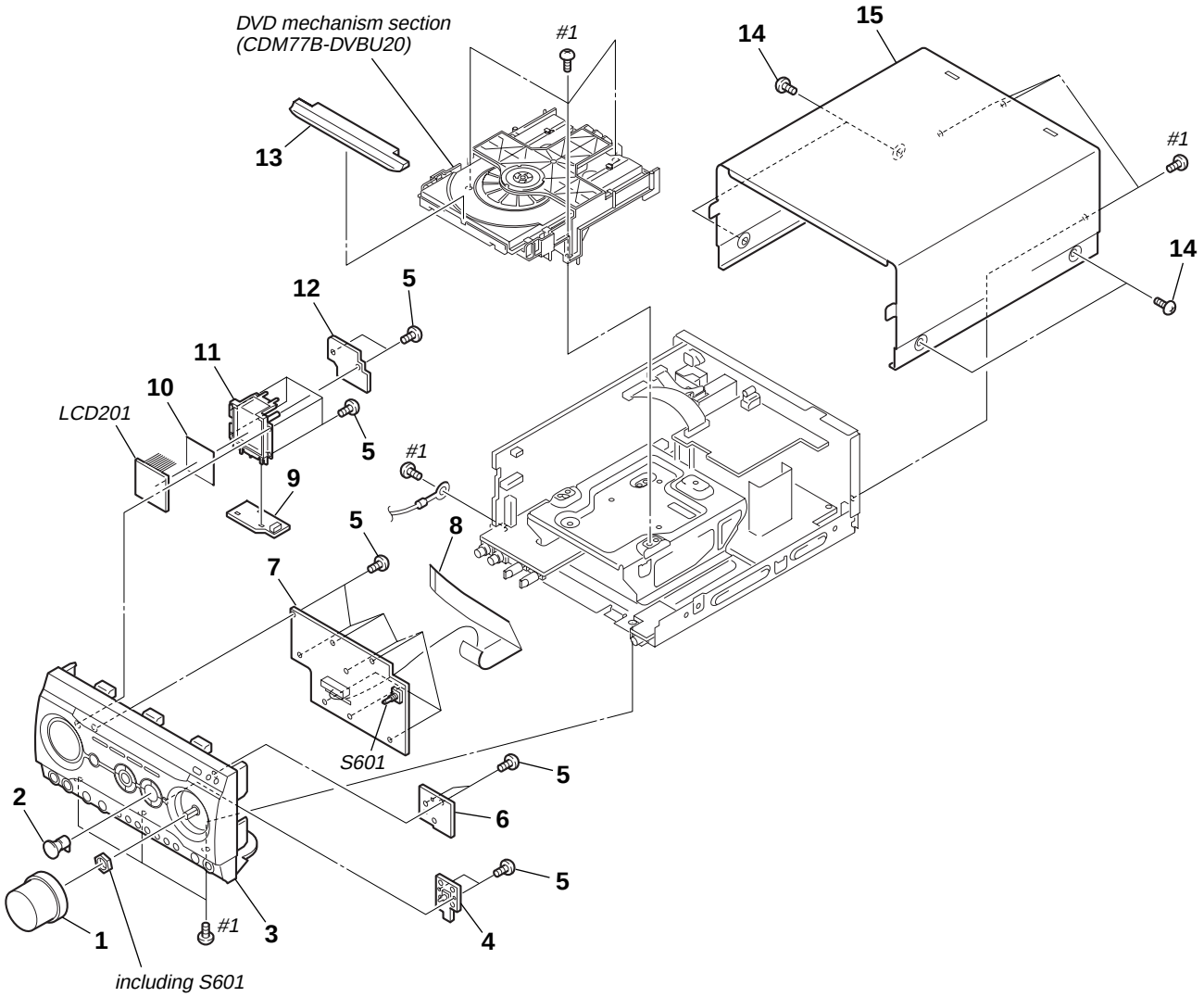
SECTION 5
EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
  AUS : Australian model
  E2 : 120V AC area in E model
  E3 : 240V AC area in E model
  E15 : 220-240V AC area in E model
  EA : Saudi Arabia model
  KR : Korean model
  MY : Malaysia model
  PH : Philippines model
  RU : Russian model
  SP : Singapore model
  TH : Thai model

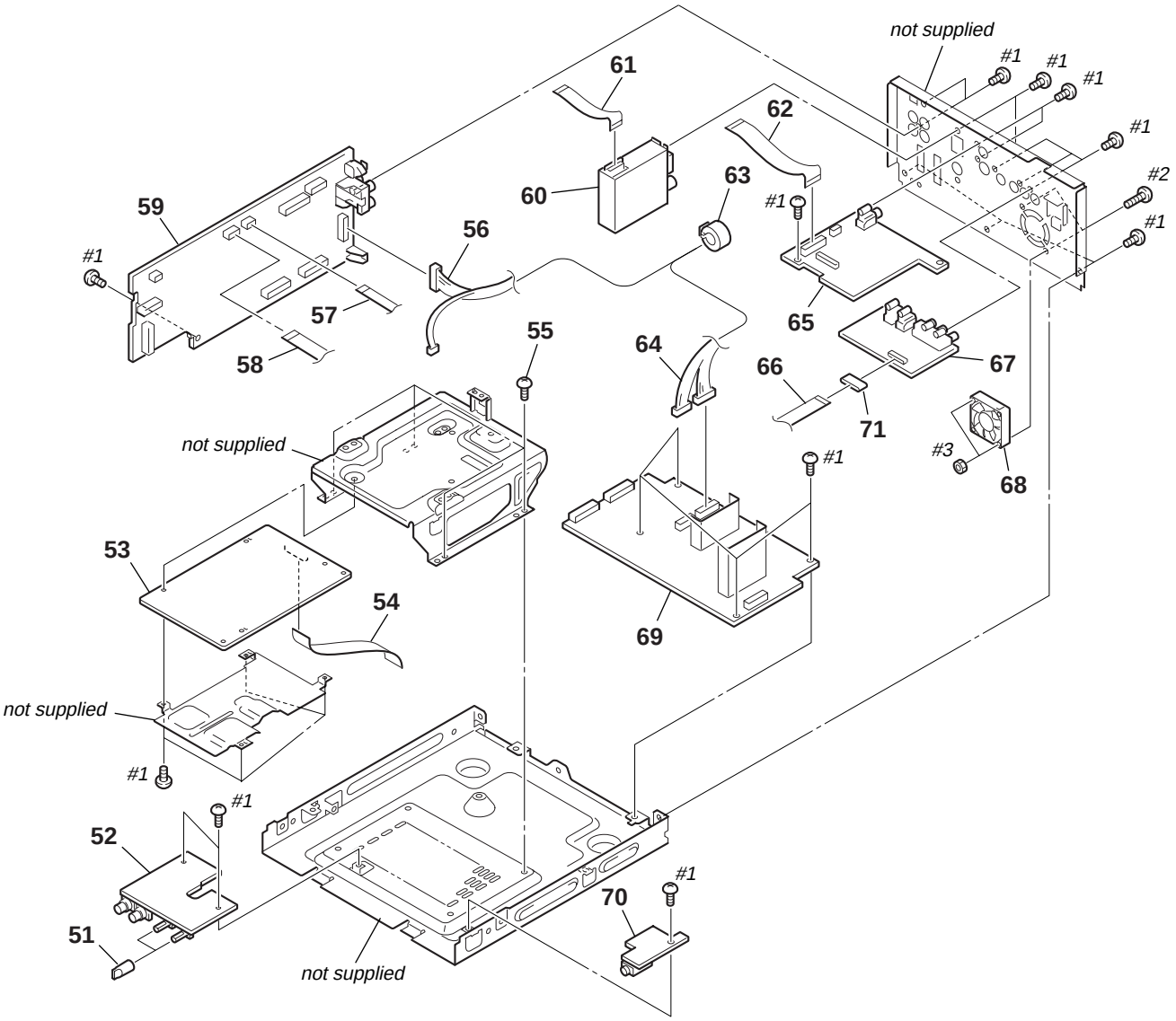
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

5-1. Front Panel Section



Ref. No.	Part No.	Description	Remarks
1	4-244-435-01	KNOB (VOLUME)	
2	4-244-423-01	BUTTON (CURSOR)	
3	X-4955-363-1	PANEL ASSY, FRONT (AEP, UK)	
3	X-4955-377-1	PANEL ASSY, FRONT (E2)	
3	X-4955-390-1	PANEL ASSY, FRONT (E3, E15, EA, MY, SP, KR, TH, PH, AUS)	
3	X-4955-723-1	PANEL ASSY, FRONT (RU)	
4	1-687-205-11	ENTER-SW BOARD	
5	4-951-620-01	SCREW (2.6X8), +BVTP	
6	1-687-207-11	CD-TC BOARD	
7	A-4732-210-A	PANEL BOARD, COMPLETE (EXCEPT TH)	
7	A-4734-616-A	PANEL BOARD, COMPLETE (TH)	
8	1-773-185-11	WIRE (FLAT TYPE) (23CORE)	
9	1-687-204-11	BACK LIGHT BOARD	
10	4-244-431-02	SHEET (LCD)	
11	4-244-430-01	HOLDER (LCD)	
12	A-4732-447-A	LCD BOARD, COMPLETE (EXCEPT TH)	
12	A-4734-602-A	LCD BOARD, COMPLETE (TH)	
13	4-244-434-11	PANEL, LOADING	
14	3-363-099-11	SCREW (CASE 3 TP2)	
15	4-244-441-11	CASE	
LCD201	1-805-136-11	DISPLAY PANEL, LIQUID CRYSTAL	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	

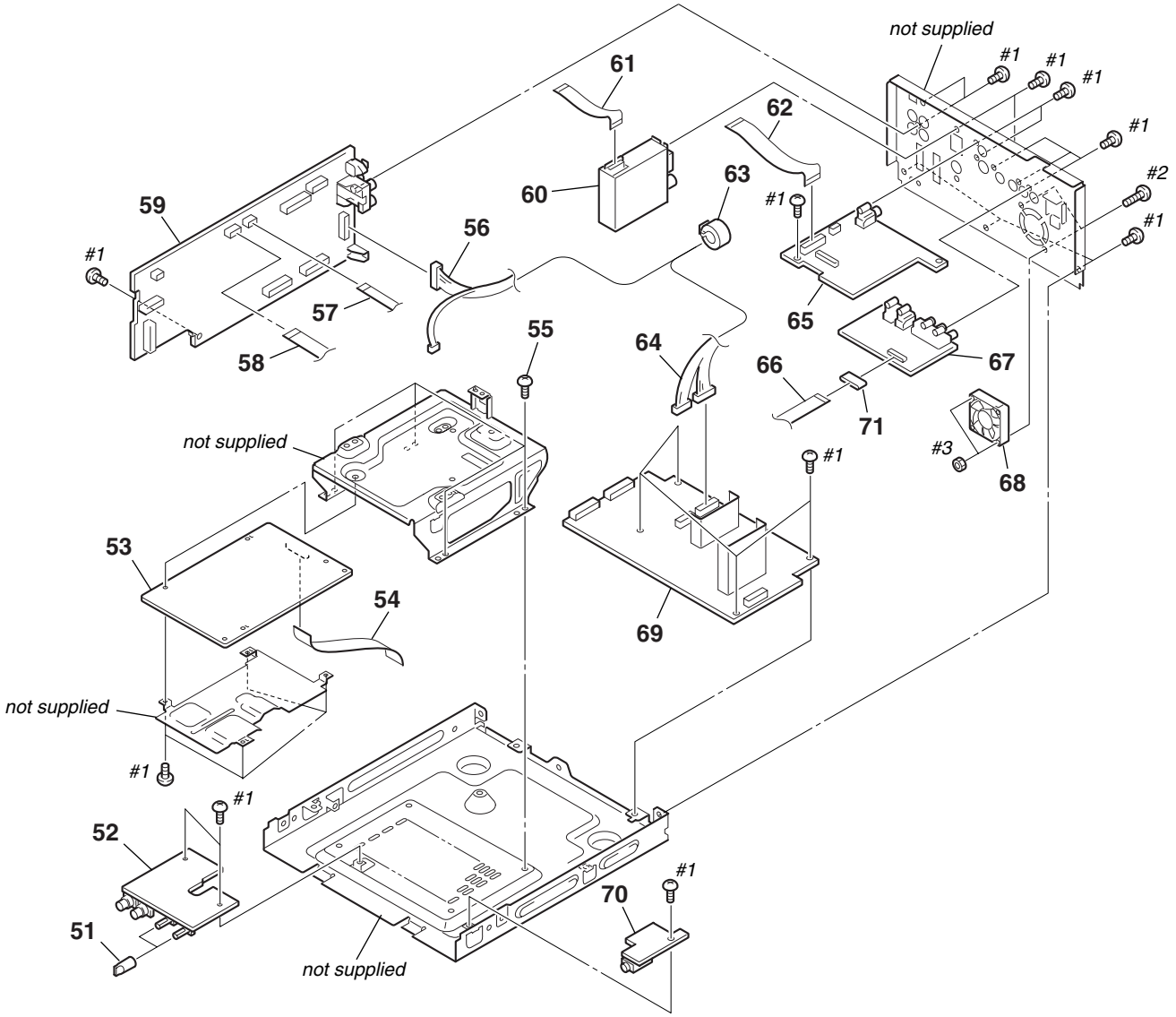
5-2. Chassis Section (1/2)



Ref. No.	Part No.	Description	Remarks
51	4-238-994-11	KNOB (MIC)	
		(E2, E3, E15, EA, MY, SP, KR, TH, PH, AUS)	
52	A-4732-216-A	MIC BOARD, COMPLETE (E2)	
52	A-4732-322-A	MIC BOARD, COMPLETE	
		(E3, E15, EA, MY, SP, KR, PH, AUS)	
52	A-4734-601-A	MIC BOARD, COMPLETE (TH)	
53	A-4732-334-A	DMB03 BOARD, COMPLETE (AEP, UK, RU)	
53	A-4732-357-A	DMB03 BOARD, COMPLETE (E2)	
53	A-4732-362-A	DMB03 BOARD, COMPLETE	
		(E3, E15, EA, MY, SP, TH, KR, PH)	
53	A-4732-369-A	DMB03 BOARD, COMPLETE (AUS)	
54	1-775-190-11	WIRE (FLAT TYPE)(21 CORE)(TH)	
54	1-827-402-11	WIRE (FLAT TYPE)(21 CORE)	
		(E2, E3, E15, EA, MY, SP, KR, PH)	
54	1-827-403-11	WIRE (FLAT TYPE)(25 CORE)	
		(AEP, UK, RU, AUS)	

Ref. No.	Part No.	Description	Remarks
55	3-970-608-01	SUMITITE (B3), +BV	
56	1-827-003-11	CORD (WITH CONNECTOR) 19P	
57	1-775-073-11	WIRE (FLAT TYPE)(7 CORE)(TH)	
57	1-827-404-11	WIRE (FLAT TYPE)(7 CORE)(EXCEPT TH)	
58	1-791-112-11	WIRE (FLAT TYPE)(11 CORE)	
		(E3, E15, EA, MY, SP, KR, TH, PH, AUS)	
59	A-4732-199-A	MAIN BOARD, COMPLETE (AEP, UK)	
59	A-4732-213-A	MAIN BOARD, COMPLETE (E2)	
59	A-4732-319-A	MAIN BOARD, COMPLETE (MY, SP, KR, PH)	
59	A-4732-326-A	MAIN BOARD, COMPLETE (EA)	
59	A-4732-329-A	MAIN BOARD, COMPLETE (AUS)	
59	A-4734-568-A	MAIN BOARD, COMPLETE (E3, E15)	
59	A-4734-597-A	MAIN BOARD, COMPLETE (TH)	
59	A-4734-805-A	MAIN BOARD, COMPLETE (RU)	
60	1-693-603-31	TUNER	
		(FM/AM)(E2, E3, E15, EA, MY, SP, TH, PH, AUS)	

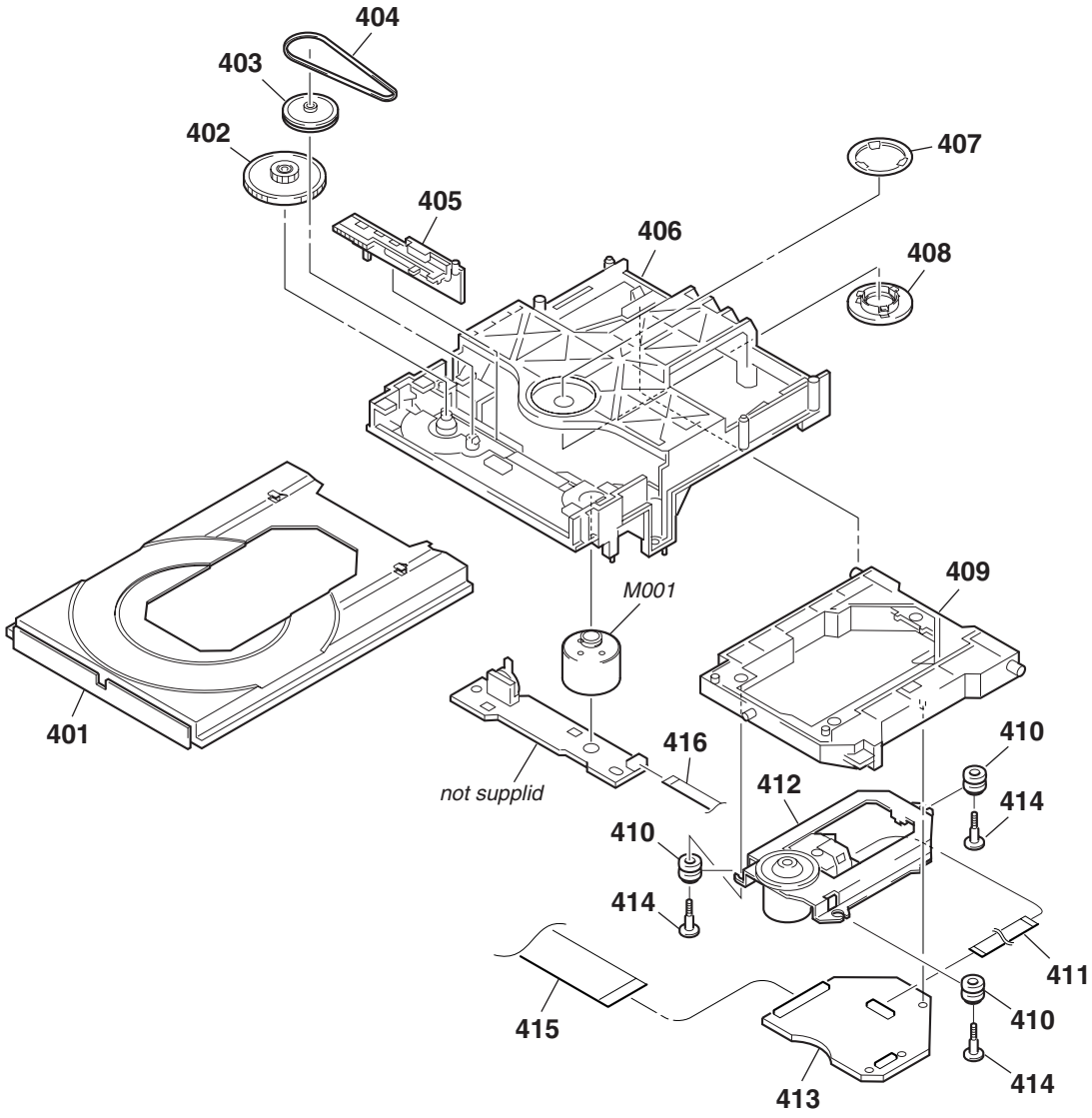
Chassis Section (2/2)



Ref. No.	Part No.	Description	Remarks
60	1-693-604-11	TUNER (FM/AM)(AEP, UK)	
60	1-693-605-11	TUNER (FM/AM)(KR)	
60	1-693-627-11	TUNER (FM/AM)(RU)	
61	1-769-938-11	WIRE (FLAT TYPE)(11 CORE)(EXCEPT AEP, UK)	
61	1-773-002-11	WIRE (FLAT TYPE)(15 CORE)(AEP, UK)	
62	1-773-182-11	WIRE (FLAT TYPE)(23 CORE)	(EXCEPT AEP, UK, RU, AUS)
62	1-773-212-11	WIRE (FLAT TYPE)(25 CORE)	(AEP, UK, RU, AUS)
63	1-500-657-11	CORE, FERRIET	
64	1-827-012-11	CORD (WITH CONNECTOR) 20P	
65	A-4732-203-A	4CH-VOL BOARD, COMPLETE (AEP, UK, RU)	
65	A-4732-217-A	4CH-VOL BOARD, COMPLETE (E2)	
65	A-4732-323-A	4CH-VOL BOARD, COMPLETE	(E3, E15, EA, MY, SP, KR, PH)

Ref. No.	Part No.	Description	Remarks
65	A-4732-332-A	4CH-VOL BOARD, COMPLETE (AUS)	
65	A-4734-603-A	4CH-VOL BOARD, COMPLETE (TH)	
66	1-792-108-11	WIRE (FLAT TYPE)(17 CORE)(TH)	
66	1-827-401-11	WIRE (FLAT TYPE)(17 CORE)(EXCEPT TH)	
67	A-4732-205-A	VIDEO BOARD, COMPLETE (EXCEPT TH)	
67	A-4734-606-A	VIDEO BOARD, COMPLETE (TH)	
68	1-787-056-11	FAN, DC	
69	A-4732-208-A	REGULATOR BOARD, COMPLETE (EXCEPT TH)	
69	A-4734-612-A	REGULATOR BOARD, COMPLETE (TH)	
70	1-687-208-11	HP AMP BOARD	
71	1-500-657-11	XXXXXXXXXX	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#2	7-685-873-09	SCREW +BVTT 3X10 (S)	
#3	7-684-023-04	N 3, TYPE 2	

5-3. DVD Mechanism Section



Ref. No.	Part No.	Description	Remarks
401	4-243-742-01	TRAY (AU)	
402	3-080-484-01	DRIVING GEAR	
403	3-080-485-01	PULLEY GEAR	
404	3-080-478-01	BELT	
405	3-080-477-01	CHUCK CAM	
406	4-243-741-01	BASE (AU), LOADING	
407	3-080-476-01	YOKE	
408	3-080-483-01	CHUCK PLATE	
409	4-243-743-01	HOLDER (DBU1)	
410	3-053-847-31	INSULATOR	
411	1-689-264-11	PWB, FLEXIBLE	
⚠412	A-4713-410-A	PICK-UP UNIT (DBU-1)	
413	A-4728-690-A	RF BOARD, COMPLETE	
414	4-981-923-01	SCREW (M), STEP	
415	1-775-265-11	WIRE (FLAT TYPE)(29 CORE)(EXCEPT TH)	
416	1-827-178-11	WIRE (FLAT TYPE)(5 CORE)	
M001	1-763-967-11	MOTOR, DC (LOADING)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

4CH-VOL

SECTION 6
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
  uF: µF
- COILS
  uH: µH
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... ,
  uPB... , µPB... , uPC... , µPC... ,
  uPD..., µPD...
- Abbreviation
  AUS : Australian model
  E2 : 120V AC area in E model
  E3 : 240V AC area in E model
  E15 : 220-240V AC area in E model
  EA : Saudi Arabia model
  KR : Korean model
  MY : Malaysia model
  PH : Philippines model
  RU : Russian model
  SP : Singapore model
  TH : Thai model

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description			Remarks
	A-4732-203-A	4CH-VOL BOARD, COMPLETE (AEP, UK, RU)			
		**********			
	A-4732-217-A	4CH-VOL BOARD, COMPLETE (E2)			
		**********			
	A-4732-323-A	4CH-VOL BOARD, COMPLETE			
		(E3, E15, EA, MY, SP, KR, PH)			
		**********			
	A-4732-332-A	4CH-VOL BOARD, COMPLETE (AUS)			
		**********			
	A-4734-603-A	4CH-VOL BOARD, COMPLETE (TH)			
		**********			
		< CAPACITOR >			
C301	1-126-964-11	ELECT	10uF	20.00%	50V
C302	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C303	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C304	1-126-964-11	ELECT	10uF	20.00%	50V
C305	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C306	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C307	1-126-964-11	ELECT	10uF	20.00%	50V
C308	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C309	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C310	1-126-964-11	ELECT	10uF	20.00%	50V
C311	1-126-964-11	ELECT	10uF	20.00%	50V
C312	1-126-964-11	ELECT	10uF	20.00%	50V
C315	1-126-964-11	ELECT	10uF	20.00%	50V
C316	1-162-995-11	CERAMIC CHIP	0.022uF		50V
C320	1-126-964-11	ELECT	10uF	20.00%	50V
C321	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C322	1-126-964-11	ELECT	10uF	20.00%	50V
C323	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C324	1-126-964-11	ELECT	10uF	20.00%	50V
C325	1-126-964-11	ELECT	10uF	20.00%	50V
C330	1-165-176-11	CERAMIC CHIP	0.047uF	10.00%	16V
C331	1-126-964-11	ELECT	10uF	20.00%	50V
C332	1-136-169-00	FILM	0.22uF	5.00%	50V
C333	1-136-165-00	FILM	0.1uF	5.00%	50V
C334	1-126-964-11	ELECT	10uF	20.00%	50V
C337	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C341	1-126-933-11	ELECT	100uF	20.00%	16V
C342	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C343	1-126-960-11	ELECT	1uF	20.00%	50V
C344	1-126-933-11	ELECT	100uF	20.00%	16V
C345	1-126-935-11	ELECT	470uF	20.00%	16V
C346	1-164-360-11	CERAMIC CHIP	0.1uF		16V
					(AEP, UK, RU, AUS)

Ref. No.	Part No.	Description			Remarks
C347	1-164-360-11	CERAMIC CHIP	0.1uF		16V
					(AEP, UK, RU, AUS)
C348	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C351	1-126-964-11	ELECT	10uF	20.00%	50V
C352	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C353	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C354	1-126-964-11	ELECT	10uF	20.00%	50V
C355	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C356	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C357	1-126-964-11	ELECT	10uF	20.00%	50V
C358	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C359	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C360	1-126-964-11	ELECT	10uF	20.00%	50V
C361	1-126-964-11	ELECT	10uF	20.00%	50V
C362	1-126-964-11	ELECT	10uF	20.00%	50V
C365	1-126-964-11	ELECT	10uF	20.00%	50V
C366	1-162-995-11	CERAMIC CHIP	0.022uF		50V
C370	1-126-964-11	ELECT	10uF	20.00%	50V
C371	1-126-964-11	ELECT	10uF	20.00%	50V
C372	1-126-964-11	ELECT	10uF	20.00%	50V
C373	1-126-964-11	ELECT	10uF	20.00%	50V
C374	1-126-964-11	ELECT	10uF	20.00%	50V
C375	1-126-964-11	ELECT	10uF	20.00%	50V
C376	1-126-964-11	ELECT	10uF	20.00%	50V
C377	1-126-964-11	ELECT	10uF	20.00%	50V
		< CONNECTOR >			
CN301	1-784-786-11	CONNECTOR, FFC 25P (AEP, UK, RU, AUS)			
CN301	1-784-784-11	CONNECTOR, FFC 23P			
		(EXCEPT AEP, UK, RU, AUS)			
* CN302	1-566-460-11	PIN, CONNECTOR 4P			
CN303	1-779-293-11	CONNECTOR, FFC (LIF (NON-ZIF)) 25P			
		(AEP, UK, RU, AUS)			
CN303	1-779-289-11	CONNECTOR, FFC (LIF (NON-ZIF)) 21P			
		(EXCEPT AEP, UK, RU, AUS)			
		< IC >			
IC301	6-703-651-11	IC M61530FP-D60G			
		< JACK >			
J302	1-770-377-31	JACK, PIN 1P 9 (SUB WOOFER OUT)			
		< COIL >			
L341	1-412-064-11	INDUCTOR	100uH		

Ref. No.	Part No.	Description			Remarks
		< TRANSISTOR >			
Q301	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16		
Q302	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16		
Q303	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16		
Q304	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16		
Q305	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16		
Q306	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16		
Q307	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16		
Q308	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16		
Q309	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16		
		< RESISTOR >			
R301	1-216-841-11	METAL CHIP	47K	5%	1/10W
R302	1-216-817-11	METAL CHIP	470	5%	1/10W
R303	1-216-833-11	METAL CHIP	10K	5%	1/10W
R304	1-216-833-11	METAL CHIP	10K	5%	1/10W
R305	1-216-821-11	METAL CHIP	1K	5%	1/10W
R306	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R307	1-216-841-11	METAL CHIP	47K	5%	1/10W
R308	1-216-841-11	METAL CHIP	47K	5%	1/10W
R309	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R310	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R311	1-216-841-11	METAL CHIP	47K	5%	1/10W
R312	1-216-857-11	METAL CHIP	1M	5%	1/10W
R313	1-216-833-11	METAL CHIP	10K	5%	1/10W (EXCEPT TH)
R320	1-216-833-11	METAL CHIP	10K	5%	1/10W
R321	1-216-821-11	METAL CHIP	1K	5%	1/10W
R322	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R323	1-216-841-11	METAL CHIP	47K	5%	1/10W
R330	1-216-857-11	METAL CHIP	1M	5%	1/10W
R331	1-216-821-11	METAL CHIP	1K	5%	1/10W
R332	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R333	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R334	1-216-845-11	METAL CHIP	100K	5%	1/10W
R335	1-216-821-11	METAL CHIP	1K	5%	1/10W
R336	1-216-821-11	METAL CHIP	1K	5%	1/10W
R337	1-216-845-11	METAL CHIP	100K	5%	1/10W
R340	1-216-864-11	METAL CHIP	0	5%	1/10W
R341	1-216-821-11	METAL CHIP	1K	5%	1/10W
R342	1-216-821-11	METAL CHIP	1K	5%	1/10W
R351	1-216-841-11	METAL CHIP	47K	5%	1/10W
R352	1-216-817-11	METAL CHIP	470	5%	1/10W
R353	1-216-833-11	METAL CHIP	10K	5%	1/10W
R354	1-216-833-11	METAL CHIP	10K	5%	1/10W
R355	1-216-821-11	METAL CHIP	1K	5%	1/10W
R356	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R357	1-216-841-11	METAL CHIP	47K	5%	1/10W
R358	1-216-841-11	METAL CHIP	47K	5%	1/10W
R359	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R360	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R361	1-216-841-11	METAL CHIP	47K	5%	1/10W
R362	1-216-857-11	METAL CHIP	1M	5%	1/10W
R363	1-216-833-11	METAL CHIP	10K	5%	1/10W
R370	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R371	1-216-845-11	METAL CHIP	100K	5%	1/10W
R372	1-216-821-11	METAL CHIP	1K	5%	1/10W
R373	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R374	1-216-845-11	METAL CHIP	100K	5%	1/10W
R375	1-216-821-11	METAL CHIP	1K	5%	1/10W
R376	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R377	1-216-845-11	METAL CHIP	100K	5%	1/10W
R378	1-216-821-11	METAL CHIP	1K	5%	1/10W
R379	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R380	1-216-845-11	METAL CHIP	100K	5%	1/10W
R381	1-216-821-11	METAL CHIP	1K	5%	1/10W
R382	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R383	1-216-845-11	METAL CHIP	100K	5%	1/10W
R384	1-216-821-11	METAL CHIP	1K	5%	1/10W
R385	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R386	1-216-845-11	METAL CHIP	100K	5%	1/10W
R387	1-216-821-11	METAL CHIP	1K	5%	1/10W
R388	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R389	1-216-845-11	METAL CHIP	100K	5%	1/10W
R390	1-216-821-11	METAL CHIP	1K	5%	1/10W
R391	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R392	1-216-845-11	METAL CHIP	100K	5%	1/10W
R393	1-216-821-11	METAL CHIP	1K	5%	1/10W
**********					
	1-687-204-11	BACK LIGHT BOARD			
		**********			
		< CAPACITOR >			
C608	1-162-971-11	CERAMIC CHIP	0.001uF	10.00%	50V
C611	1-162-971-11	CERAMIC CHIP	0.001uF	10.00%	50V
C622	1-162-971-11	CERAMIC CHIP	0.001uF	10.00%	50V
C623	1-162-971-11	CERAMIC CHIP	0.001uF	10.00%	50V
		< CONNECTOR >			
CN602	1-785-330-11	PIN, CONNECTOR (LIGHT ANGLE) 4P			
		< DIODE >			
D608	6-500-664-01	DIODE SELS6E14C-MTP5 (LCD BACK LIGHT)			
D609	6-500-665-01	DIODE SELU6614C-STP5 (LCD BACK LIGHT)			
D610	6-500-665-01	DIODE SELU6614C-STP5 (LCD BACK LIGHT)			
D611	6-500-663-01	DIODE SELS6D14C-TP5 (LCD BACK LIGHT)			
D612	6-500-663-01	DIODE SELS6D14C-TP5 (LCD BACK LIGHT)			
D613	6-500-664-01	DIODE SELS6E14C-MTP5			
		< RESISTOR >			
R608	1-216-820-11	METAL CHIP	820	5%	1/10W
R609	1-216-821-11	METAL CHIP	1K	5%	1/10W
R610	1-216-821-11	METAL CHIP	1K	5%	1/10W
R611	1-216-821-11	METAL CHIP	1K	5%	1/10W
R633	1-216-821-11	METAL CHIP	1K	5%	1/10W
R634	1-216-820-11	METAL CHIP	820	5%	1/10W
R635	1-216-821-11	METAL CHIP	1K	5%	1/10W
R636	1-216-821-11	METAL CHIP	1K	5%	1/10W
R667	1-216-821-11	METAL CHIP	1K	5%	1/10W
R668	1-216-820-11	METAL CHIP	820	5%	1/10W
R669	1-216-821-11	METAL CHIP	1K	5%	1/10W
R670	1-216-821-11	METAL CHIP	1K	5%	1/10W
R691	1-216-821-11	METAL CHIP	1K	5%	1/10W
R692	1-216-821-11	METAL CHIP	1K	5%	1/10W
R693	1-216-821-11	METAL CHIP	1K	5%	1/10W

BACK LIGHT | CD-TC SW | DMB03

Ref. No.	Part No.	Description			Remarks
R694	1-216-820-11	METAL CHIP	820	5%	1/10W
R695	1-216-820-11	METAL CHIP	820	5%	1/10W
R696	1-216-820-11	METAL CHIP	820	5%	1/10W
**********					
	1-687-207-11	CD-TC SW BOARD			
		**********			
R651	1-216-837-11	METAL CHIP	22K	5%	1/10W
R652	1-216-839-11	METAL CHIP	33K	5%	1/10W
R653	1-216-843-11	METAL CHIP	68K	5%	1/10W
		< SWITCH >			
S638	1-762-875-21	SWITCH, KEYBOARD (⏏)			
S639	1-762-875-21	SWITCH, KEYBOARD (CD SYNC)			
S640	1-762-875-21	SWITCH, KEYBOARD (● START)			
**********					
	A-4732-334-A	DMB03 BOARD, COMPLETE (AEP, UK, RU)			
		**********			
	A-4732-357-A	DMB03 BOARD, COMPLETE (E2)			
		**********			
	A-4732-362-A	DMB03 BOARD, COMPLETE (E3, E15, EA, MY, SP, TH, KR, PH)			
		**********			
	A-4732-369-A	DMB03 BOARD, COMPLETE (AUS)			
		**********			
		< CAPACITOR >			
C101	1-126-246-11	ELECT CHIP	220uF	20%	4V
C151	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C204	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C205	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C213	1-126-209-11	ELECT CHIP	100uF	20.00%	4V
C214	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C215	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C216	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C218	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C220	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C226	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C227	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C229	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C230	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C231	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C232	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C233	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C234	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C235	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C236	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C237	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C238	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C239	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C240	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C241	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C242	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C243	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C244	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C245	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C246	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C247	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C248	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C249	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C250	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C251	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C252	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C253	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C254	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C255	1-117-370-11	CERAMIC CHIP	10uF		10V
C256	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C257	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C258	1-117-370-11	CERAMIC CHIP	10uF		10V
C259	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C260	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C261	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C262	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C263	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C264	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C265	1-117-370-11	CERAMIC CHIP	10uF		10V
C266	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C267	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C268	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C269	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C270	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C271	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C272	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C275	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C281	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C282	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C283	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C284	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C286	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C287	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C289	1-164-947-11	CERAMIC CHIP	0.01uF		50V (AEP, UK, RU, AUS)
C302	1-164-943-11	CERAMIC CHIP	0.01uF	10.00%	16V
C303	1-164-943-11	CERAMIC CHIP	0.01uF	10.00%	16V
C304	1-164-943-11	CERAMIC CHIP	0.01uF	10.00%	16V
C305	1-164-943-11	CERAMIC CHIP	0.01uF	10.00%	16V
C306	1-164-943-11	CERAMIC CHIP	0.01uF	10.00%	16V
C307	1-164-943-11	CERAMIC CHIP	0.01uF	10.00%	16V
C308	1-164-874-11	CERAMIC CHIP	100PF	5.00%	50V
C309	1-164-874-11	CERAMIC CHIP	100PF	5.00%	50V
C315	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C316	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C321	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C322	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C323	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C324	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C325	1-126-209-11	ELECT CHIP	100uF	20.00%	4V
C326	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C352	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C355	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C356	1-126-193-11	ELECT	1uF	20%	50V
C357	1-126-193-11	ELECT	1uF	20%	50V
C363	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C364	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C365	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C366	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C367	1-164-935-11	CERAMIC CHIP	470PF	10.00%	50V

Ref. No.	Part No.	Description			Remarks
C368	1-164-935-11	CERAMIC CHIP	470PF	10.00%	50V
C392	1-126-395-11	ELECT	22uF	20%	16V
C393	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C394	1-126-246-11	ELECT CHIP	220uF	20%	4V
C395	1-107-820-11	CERAMIC CHIP	0.1uF		16V
		(E3, E15, EA, MY, SP, TH, KR, PH, AUS)			
C396	1-107-820-11	CERAMIC CHIP	0.1uF		16V
		(E3, E15, EA, MY, SP, TH, KR, PH, AUS)			
C397	1-126-246-11	ELECT CHIP	220uF	20%	4V
		(E3, E15, EA, MY, SP, TH, KR, PH, AUS)			
C412	1-216-864-11	METAL CHIP	0	5%	1/10W
C413	1-216-864-11	METAL CHIP	0	5%	1/10W
C414	1-216-864-11	METAL CHIP	0	5%	1/10W
C415	1-216-864-11	METAL CHIP	0	5%	1/10W
C416	1-216-864-11	METAL CHIP	0	5%	1/10W
C501	1-164-943-11	CERAMIC CHIP	0.01uF	10.00%	16V
C502	1-164-943-11	CERAMIC CHIP	0.01uF	10.00%	16V
C503	1-127-772-81	CERAMIC CHIP	33000PF	10%	10V
C504	1-127-772-81	CERAMIC CHIP	33000PF	10%	10V
C506	1-164-934-11	CERAMIC CHIP	330PF	10.00%	50V
C508	1-164-937-11	CERAMIC CHIP	0.001uF	10.00%	50V
C509	1-164-934-11	CERAMIC CHIP	330PF	10.00%	50V
C510	1-164-937-11	CERAMIC CHIP	0.001uF	10.00%	50V
C512	1-164-943-11	CERAMIC CHIP	0.01uF	10.00%	16V
C514	1-164-943-11	CERAMIC CHIP	0.01uF	10.00%	16V
C516	1-164-939-11	CERAMIC CHIP	0.0022uF	10.00%	50V
C517	1-117-370-11	CERAMIC CHIP	10uF		10V
C518	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C519	1-164-943-11	CERAMIC CHIP	0.01uF	10.00%	16V
C522	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	6.3V
C525	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C526	1-126-395-11	ELECT	22uF	20%	16V
C527	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C528	1-126-395-11	ELECT	22uF	20%	16V
C529	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C531	1-119-923-11	CERAMIC CHIP	0.047uF	10.00%	10V
C533	1-164-939-11	CERAMIC CHIP	0.0022uF	10.00%	50V
C534	1-107-819-11	CERAMIC CHIP	0.022uF	10.00%	16V
C535	1-164-939-11	CERAMIC CHIP	0.0022uF	10.00%	50V
C543	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C544	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C545	1-117-370-11	CERAMIC CHIP	10uF		10V
C547	1-107-725-11	CERAMIC CHIP	0.1uF	10.00%	16V
C548	1-164-943-11	CERAMIC CHIP	0.01uF	10.00%	16V
C551	1-125-891-11	CERAMIC CHIP	0.47uF	10.00%	10V
C552	1-216-295-91	SHORT CHIP	0		
C553	1-164-940-11	CERAMIC CHIP	0.0033uF	10.00%	16V
C556	1-117-370-11	CERAMIC CHIP	10uF		10V
C558	1-126-209-11	ELECT CHIP	100uF	20.00%	4V
C559	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C560	1-164-938-11	CERAMIC CHIP	0.0015uF	10.00%	50V
C561	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C563	1-164-874-11	CERAMIC CHIP	100PF	5.00%	50V
C565	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C567	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C568	1-117-370-11	CERAMIC CHIP	10uF		10V
C569	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C570	1-117-370-11	CERAMIC CHIP	10uF		10V
C573	1-164-874-11	CERAMIC CHIP	100PF	5.00%	50V
C588	1-164-939-11	CERAMIC CHIP	0.0022uF	10.00%	50V
C589	1-164-939-11	CERAMIC CHIP	0.0022uF	10.00%	50V
C590	1-164-939-11	CERAMIC CHIP	0.0022uF	10.00%	50V
C592	1-124-779-00	ELECT CHIP	10uF	20%	16V
C601	1-107-820-11	CERAMIC CHIP	0.1uF		16V
		(E3, E15, EA, MY, SP, TH, KR, PH, AUS)			
C603	1-117-370-11	CERAMIC CHIP	10uF		10V
		(E3, E15, EA, MY, SP, TH, KR, PH, AUS)			
C605	1-107-820-11	CERAMIC CHIP	0.1uF		16V
		(E3, E15, EA, MY, SP, TH, KR, PH, AUS)			
C606	1-107-820-11	CERAMIC CHIP	0.1uF		16V
		(E3, E15, EA, MY, SP, TH, KR, PH, AUS)			
C607	1-107-820-11	CERAMIC CHIP	0.1uF		16V
		(E3, E15, EA, MY, SP, TH, KR, PH, AUS)			
C608	1-107-820-11	CERAMIC CHIP	0.1uF		16V
		(E3, E15, EA, MY, SP, TH, KR, PH, AUS)			
C609	1-107-820-11	CERAMIC CHIP	0.1uF		16V
		(E3, E15, EA, MY, SP, TH, KR, PH, AUS)			
C610	1-107-820-11	CERAMIC CHIP	0.1uF		16V
		(E3, E15, EA, MY, SP, TH, KR, PH, AUS)			
C611	1-107-820-11	CERAMIC CHIP	0.1uF		16V
		(E3, E15, EA, MY, SP, TH, KR, PH, AUS)			
C612	1-107-820-11	CERAMIC CHIP	0.1uF		16V
		(E3, E15, EA, MY, SP, TH, KR, PH, AUS)			
C613	1-107-820-11	CERAMIC CHIP	0.1uF		16V
		(E3, E15, EA, MY, SP, TH, KR, PH, AUS)			
C614	1-107-820-11	CERAMIC CHIP	0.1uF		16V
		(E3, E15, EA, MY, SP, TH, KR, PH, AUS)			
C615	1-107-820-11	CERAMIC CHIP	0.1uF		16V
		(E3, E15, EA, MY, SP, TH, KR, PH, AUS)			
C616	1-107-820-11	CERAMIC CHIP	0.1uF		16V
		(E3, E15, EA, MY, SP, TH, KR, PH, AUS)			
C617	1-107-820-11	CERAMIC CHIP	0.1uF		16V
		(E3, E15, EA, MY, SP, TH, KR, PH, AUS)			
C618	1-107-820-11	CERAMIC CHIP	0.1uF		16V
		(E3, E15, EA, MY, SP, TH, KR, PH, AUS)			
C619	1-107-820-11	CERAMIC CHIP	0.1uF		16V
		(E3, E15, EA, MY, SP, TH, KR, PH, AUS)			
C626	1-164-868-11	CERAMIC CHIP	56PF	5.00%	50V
		(E3, E15, EA, MY, SP, TH, KR, PH, AUS)			
C627	1-164-858-11	CERAMIC CHIP	22PF	5.00%	50V
		(E3, E15, EA, MY, SP, TH, KR, PH, AUS)			
C650	1-107-820-11	CERAMIC CHIP	0.1uF		16V
		(E3, E15, EA, MY, SP, TH, KR, PH, AUS)			
C651	1-117-370-11	CERAMIC CHIP	10uF		10V
		(E3, E15, EA, MY, SP, TH, KR, PH, AUS)			
C701	1-126-209-11	ELECT CHIP	100uF	20.00%	4V
C702	1-117-370-11	CERAMIC CHIP	10uF		10V
C703	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	6.3V
C705	1-164-943-11	CERAMIC CHIP	0.01uF	10.00%	16V
C706	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C708	1-164-943-11	CERAMIC CHIP	0.01uF	10.00%	16V
C709	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C711	1-164-923-11	CERAMIC CHIP	0.047uF	10.00%	10V
C712	1-164-874-11	CERAMIC CHIP	100PF	5.00%	50V
C713	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C714	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C715	1-164-938-11	CERAMIC CHIP	0.0015uF	10.00%	50V
C716	1-125-891-11	CERAMIC CHIP	0.47uF	10.00%	10V
C718	1-107-820-11	CERAMIC CHIP	0.1uF		16V

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Ref. No.	Part No.	Description			Remarks
C720	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C721	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C722	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C723	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C724	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C725	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C726	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C727	1-117-370-11	CERAMIC CHIP	10uF		10V
C728	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C729	1-117-370-11	CERAMIC CHIP	10uF		10V
C730	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C740	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C741	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C742	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C743	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C744	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C745	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C752	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C760	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C761	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C762	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C763	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C764	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C765	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C766	1-164-874-11	CERAMIC CHIP	100PF	5.00%	50V
C767	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C768	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C769	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C770	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C771	1-119-923-11	CERAMIC CHIP	0.047uF	10.00%	10V
C772	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C773	1-125-891-11	CERAMIC CHIP	0.47uF	10.00%	10V
C774	1-164-941-11	CERAMIC CHIP	0.0047uF	10.00%	16V
C775	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C776	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C777	1-125-777-11	CERAMIC CHIP	0.1uF	10.00%	10V
C778	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C779	1-117-370-11	CERAMIC CHIP	10uF		10V
C780	1-117-370-11	CERAMIC CHIP	10uF		10V
C781	1-165-643-21	ELECT CHIP	150uF	20%	4V
C782	1-164-938-11	CERAMIC CHIP	0.0015uF	10.00%	50V
C783	1-164-938-11	CERAMIC CHIP	0.0015uF	10.00%	50V
C901	1-126-209-11	ELECT CHIP	100uF	20.00%	4V
C902	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C903	1-126-209-11	ELECT CHIP	100uF	20.00%	4V
C904	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C905	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C906	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C907	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C908	1-164-874-11	CERAMIC CHIP	100PF	5.00%	50V
C909	1-164-874-11	CERAMIC CHIP	100PF	5.00%	50V
C910	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C913	1-127-772-81	CERAMIC CHIP	33000PF	10%	10V
C914	1-164-849-11	CERAMIC CHIP	9PF	0.50PF	50V
C915	1-164-846-11	CERAMIC CHIP	6PF	0.50PF	50V
C916	1-126-209-11	ELECT CHIP	100uF	20.00%	4V
C917	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C918	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C924	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C925	1-126-395-11	ELECT	22uF	20%	16V
C926	1-126-246-11	ELECT CHIP	220uF	20%	4V
C927	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C1302	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C1304	1-218-990-11	SHORT CHIP	0		
		< CONNECTOR >			
CN101	1-784-366-21	CONNECTOR, FFC/FPC 7P			
CN102	1-815-954-21	PIN, CONNECTOR (PC BOARD) 13P			
CN103	1-784-370-21	CONNECTOR, FFC/FPC 11P (E3, E15, EA, MY, SP, TH, KR, PH, AUS)			
CN105	1-784-376-11	CONNECTOR, FFC/FPC 17P			
CN107	1-784-382-21	CONNECTOR, FFC/FPC 25P (AEP, UK, RU, AUS)			
CN107	1-778-692-11	CONNECTOR, FFC/FPC 21P (E2, E3, E15, EA, MY, SP, TH, KR, PH)			
CN202	1-784-364-21	CONNECTOR, FFC/FPC 4P (AEP, UK, RU, E2, E3, E15, EA, MY, SP, KR, PH)			
CN202	1-784-364-31	CONNECTOR, FFC/FPC 4P (AUS)			
CN501	1-778-957-11	CONNECTOR, FFC/FPC 29P			
CN901	1-764-177-11	PIN, CONNECTOR (SMD)(1.5mm) 7P			
		< DIODE >			
D202	8-719-988-61	DIODE 1SS355TE-17			
D392	8-719-988-61	DIODE 1SS355TE-17			
D393	8-719-988-61	DIODE 1SS355TE-17			
D394	8-719-988-61	DIODE 1SS355TE-17			
D901	8-719-988-61	DIODE 1SS355TE-17			
D1101	8-719-988-61	DIODE 1SS355TE-17			
D1102	8-719-988-61	DIODE 1SS355TE-17			
D1201	8-719-988-61	DIODE 1SS355TE-17			
D1202	8-719-988-61	DIODE 1SS355TE-17			
D1203	8-719-988-61	DIODE 1SS355TE-17			
D1204	8-719-988-61	DIODE 1SS355TE-17			
D1301	8-719-988-61	DIODE 1SS355TE-17			
D1302	8-719-988-61	DIODE 1SS355TE-17			
D1303	8-719-988-61	DIODE 1SS355TE-17			
D1304	8-719-988-61	DIODE 1SS355TE-17			
D1801	8-719-988-61	DIODE 1SS355TE-17			
D1802	8-719-988-61	DIODE 1SS355TE-17			
		< FERRITE BEAD >			
FB902	1-500-284-21	FERRITE	0uH		
FB903	1-500-284-21	FERRITE	0uH		
		< FILTER >			
FL203	1-234-177-21	FERRITE	0uH		
FL204	1-234-177-21	FERRITE	0uH		
FL205	1-234-177-21	FERRITE	0uH		
FL206	1-234-177-21	FERRITE	0uH		
FL302	1-234-177-21	FERRITE	0uH		
FL303	1-234-177-21	FERRITE	0uH		
FL352	1-234-177-21	FERRITE	0uH		
FL501	1-234-177-21	FERRITE	0uH		
FL502	1-234-177-21	FERRITE	0uH		
FL601	1-234-177-21	FERRITE	0uH		
		(E3, E15, EA, MY, SP, TH, KR, PH, AUS)			

Ref. No.	Part No.	Description	Remarks
FL602	1-234-177-21	FERRITE 0uH	
			(E3, E15, EA, MY, SP, TH, KR, PH, AUS)
FL701	1-234-177-21	FERRITE 0uH	
FL702	1-234-177-21	FERRITE 0uH	
FL703	1-234-177-21	FERRITE 0uH	
FL704	1-234-177-21	FERRITE 0uH	
FL705	1-234-177-21	FERRITE 0uH	
FL706	1-234-177-21	FERRITE 0uH	
FL901	1-234-177-21	FERRITE 0uH	
FL903	1-234-177-21	FERRITE 0uH	
FL908	1-234-177-21	FERRITE 0uH	
		< IC >	
IC203	6-705-034-01	IC HY57V283220T-6	
* IC204	6-703-671-01	IC BR9040F-WE2	
IC206	6-803-555-01	IC MBM29DL324BE-90PFTN-SB3V107	
IC207	6-703-540-01	IC ZIVA5X-C1F	
IC211	6-700-398-01	IC uPC2918T-E1	
IC216	6-700-437-01	IC SN74ALVCH16841DGGR	
IC252	8-759-680-48	IC TC7WH157FK (TE85R)(AEP, UK, RU, AUS)	
IC255	8-759-058-54	IC TC7S00FU (TE85R)	
IC256	8-759-549-21	IC SN74LV573APWR	
IC258	8-759-549-21	IC SN74LV573APWR	
IC259	8-759-549-21	IC SN74LV573APWR	
IC302	6-703-787-01	IC PCM1609KPTR	
IC352	8-759-560-56	IC PCM1800E/2K	
IC392	8-759-583-47	IC uPC2933T-E2	
IC393	6-700-394-01	IC BA25BC0FP-E2	
			(E3, E15, EA, MY, SP, TH, KR, PH, AUS)
IC501	6-702-157-01	IC FAN8035L	
IC503	8-759-058-43	IC NJM3404AV (TE2)	
IC509	8-752-408-73	IC CXD3068Q	
IC601	6-704-421-01	IC CXD9782R	
			(E3, E15, EA, MY, SP, TH, KR, PH, AUS)
IC602	8-759-538-16	IC IS61LV6416-10TT (ISSI)	
			(E3, E15, EA, MY, SP, TH, KR, PH, AUS)
IC701	6-703-552-01	IC CXD1882R	
IC701	6-703-552-01	IC CXD1882R (AEP)	
IC703	8-759-058-43	IC NJM3404AV (TE2)	
IC706	8-759-564-30	IC MSM51V18165F-60TSKR1	
IC901	8-752-937-54	IC CXP973064-228R	
IC902	8-759-058-64	IC TC7S32FU-TE85L	
IC903	8-759-641-86	IC BR24C16F-E2	
IC904	6-702-563-01	IC TC7W74FK-TE85L	
IC906	6-700-407-01	IC SM8707GV-G-E2	
IC907	8-759-583-47	IC uPC2933T-E2	
		< JUMPER RESISTOR >	
JW392	1-216-864-11	METAL CHIP 0 5% 1/10W	
JW601	1-218-990-11	SHORT CHIP 0 (AEP, UK, RU, E2)	
JW602	1-218-990-11	SHORT CHIP 0 (AEP, UK, RU, E2)	
JW603	1-218-990-11	SHORT CHIP 0 (AEP, UK, RU, E2)	
JW604	1-218-990-11	SHORT CHIP 0 (AEP, UK, RU, E2)	
JW605	1-218-990-11	SHORT CHIP 0 (AEP, UK, RU, E2)	
JW606	1-218-990-11	SHORT CHIP 0 (AEP, UK, RU, E2)	
JW607	1-218-990-11	SHORT CHIP 0 (AEP, UK, RU, E2)	
JW801	1-218-990-11	SHORT CHIP 0	
JW802	1-218-990-11	SHORT CHIP 0	
JW803	1-218-990-11	SHORT CHIP 0	
JW804	1-218-990-11	SHORT CHIP 0	
JW805	1-218-990-11	SHORT CHIP 0	
JW806	1-218-990-11	SHORT CHIP 0	
		< COIL >	
L402	1-216-296-11	SHORT CHIP 0	
L403	1-216-296-11	SHORT CHIP 0	
L404	1-216-296-11	SHORT CHIP 0	
L405	1-216-296-11	SHORT CHIP 0	
L406	1-216-296-11	SHORT CHIP 0	
L412	1-216-296-11	SHORT CHIP 0	
L413	1-216-296-11	SHORT CHIP 0	
L414	1-216-296-11	SHORT CHIP 0	
L415	1-216-296-11	SHORT CHIP 0	
L416	1-216-296-11	SHORT CHIP 0	
L901	1-412-031-11	INDUCTOR CHIP 47uH	
		< TRANSISTOR >	
Q202	8-729-929-26	TRANSISTOR DTC114TE-TL	
Q901	8-729-929-26	TRANSISTOR DTC114TE-TL	
Q903	8-729-025-28	TRANSISTOR 2SK1828TE85L	
Q904	8-729-025-28	TRANSISTOR 2SK1828TE85L	
		< RESISTOR >	
R10	1-216-801-11	METAL CHIP 22 5% 1/10W	
R11	1-216-801-11	METAL CHIP 22 5% 1/10W	
R12	1-216-801-11	METAL CHIP 22 5% 1/10W	
R13	1-216-801-11	METAL CHIP 22 5% 1/10W	
R14	1-216-801-11	METAL CHIP 22 5% 1/10W	
R15	1-216-801-11	METAL CHIP 22 5% 1/10W	
R197	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R198	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R207	1-216-864-11	METAL CHIP 0 5% 1/10W	
R213	1-216-807-11	METAL CHIP 68 5% 1/10W	
R214	1-216-864-11	METAL CHIP 0 5% 1/10W	
R215	1-216-864-11	METAL CHIP 0 5% 1/10W	
R217	1-216-864-11	METAL CHIP 0 5% 1/10W	
R218	1-216-864-11	METAL CHIP 0 5% 1/10W	
R219	1-216-864-11	METAL CHIP 0 5% 1/10W	
R220	1-216-864-11	METAL CHIP 0 5% 1/10W	
R221	1-216-864-11	METAL CHIP 0 5% 1/10W	
R222	1-216-864-11	METAL CHIP 0 5% 1/10W	
R223	1-216-864-11	METAL CHIP 0 5% 1/10W	
R224	1-216-864-11	METAL CHIP 0 5% 1/10W	
R225	1-216-864-11	METAL CHIP 0 5% 1/10W	
R226	1-216-864-11	METAL CHIP 0 5% 1/10W	
R227	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R228	1-216-864-11	METAL CHIP 0 5% 1/10W	
R230	1-216-803-11	METAL CHIP 33 5% 1/10W	
R231	1-216-803-11	METAL CHIP 33 5% 1/10W	
R232	1-216-803-11	METAL CHIP 33 5% 1/10W	
R233	1-216-864-11	METAL CHIP 0 5% 1/10W	
R234	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R239	1-216-809-11	METAL CHIP 100 5% 1/10W	
			(AEP, UK, RU, AUS)
R240	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R241	1-216-864-11	METAL CHIP 0 5% 1/10W	
R243	1-216-864-11	METAL CHIP 0 5% 1/10W	

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Ref. No.	Part No.	Description			Remarks
R244	1-216-821-11	METAL CHIP	1K	5%	1/10W
R245	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R246	1-216-833-11	METAL CHIP	10K	5%	1/10W
R247	1-216-821-11	METAL CHIP	1K	5%	1/10W
R248	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R250	1-216-864-11	METAL CHIP	0	5%	1/10W
R251	1-216-864-11	METAL CHIP	0	5%	1/10W
R253	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R254	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R255	1-216-864-11	METAL CHIP	0	5%	1/10W
R257	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R259	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R260	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R261	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R262	1-216-864-11	METAL CHIP	0	5%	1/10W
R263	1-218-285-11	METAL CHIP	75	5%	1/10W
R264	1-218-285-11	METAL CHIP	75	5%	1/10W
R265	1-218-285-11	METAL CHIP	75	5%	1/10W
R266	1-218-285-11	METAL CHIP	75	5%	1/10W
R267	1-218-285-11	METAL CHIP	75	5%	1/10W
R268	1-216-864-11	METAL CHIP	0	5%	1/10W
R269	1-216-864-11	METAL CHIP	0	5%	1/10W
R270	1-216-864-11	METAL CHIP	0	5%	1/10W
R273	1-216-864-11	METAL CHIP	0	5%	1/10W
R274	1-216-864-11	METAL CHIP	0	5%	1/10W
R275	1-216-864-11	METAL CHIP	0	5%	1/10W
R276	1-216-864-11	METAL CHIP	0	5%	1/10W
R277	1-216-864-11	METAL CHIP	0	5%	1/10W
R278	1-218-285-11	METAL CHIP	75	5%	1/10W
R279	1-218-285-11	METAL CHIP	75	5%	1/10W
R280	1-218-285-11	METAL CHIP	75	5%	1/10W
R281	1-218-285-11	METAL CHIP	75	5%	1/10W
R282	1-218-285-11	METAL CHIP	75	5%	1/10W
R283	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R284	1-218-829-11	METAL CHIP	180	0.5%	1/10W
R285	1-216-864-11	METAL CHIP	0	5%	1/10W
R288	1-216-864-11	METAL CHIP	0	5%	1/10W (AEP, UK, RU, AUS)
R291	1-216-864-11	METAL CHIP	0	5%	1/10W
R292	1-216-864-11	METAL CHIP	0	5%	1/10W
R293	1-216-864-11	METAL CHIP	0	5%	1/10W
R294	1-216-864-11	METAL CHIP	0	5%	1/10W
R295	1-216-864-11	METAL CHIP	0	5%	1/10W
R296	1-216-864-11	METAL CHIP	0	5%	1/10W
R301	1-216-821-11	METAL CHIP	1K	5%	1/10W
R302	1-216-813-11	METAL CHIP	220	5%	1/10W
R303	1-216-813-11	METAL CHIP	220	5%	1/10W
R304	1-216-813-11	METAL CHIP	220	5%	1/10W
R305	1-216-813-11	METAL CHIP	220	5%	1/10W
R306	1-216-813-11	METAL CHIP	220	5%	1/10W
R307	1-216-813-11	METAL CHIP	220	5%	1/10W
R308	1-216-813-11	METAL CHIP	220	5%	1/10W
R309	1-216-813-11	METAL CHIP	220	5%	1/10W
R310	1-216-809-11	METAL CHIP	100	5%	1/10W
R311	1-216-809-11	METAL CHIP	100	5%	1/10W
R312	1-216-809-11	METAL CHIP	100	5%	1/10W
R313	1-216-833-11	METAL CHIP	10K	5%	1/10W
R314	1-216-801-11	METAL CHIP	22	5%	1/10W

Ref. No.	Part No.	Description			Remarks
R327	1-216-864-11	METAL CHIP	0	5%	1/10W
R328	1-216-864-11	METAL CHIP	0	5%	1/10W
R329	1-216-864-11	METAL CHIP	0	5%	1/10W
R335	1-216-864-11	METAL CHIP	0	5%	1/10W
R352	1-216-821-91	METAL CHIP	1K	5%	1/10W
R353	1-216-821-91	METAL CHIP	1K	5%	1/10W
R362	1-216-833-11	METAL CHIP	10K	5%	1/10W
R392	1-216-797-11	METAL CHIP	10	5%	1/10W
R501	1-216-864-11	METAL CHIP	0	5%	1/10W
R502	1-216-864-11	METAL CHIP	0	5%	1/10W
R503	1-216-841-11	METAL CHIP	47K	5%	1/10W
R504	1-216-841-11	METAL CHIP	47K	5%	1/10W
R505	1-216-841-11	METAL CHIP	47K	5%	1/10W
R506	1-216-841-11	METAL CHIP	47K	5%	1/10W
R507	1-216-864-11	METAL CHIP	0	5%	1/10W
R508	1-216-864-11	METAL CHIP	0	5%	1/10W
R510	1-216-847-11	METAL CHIP	150K	5%	1/10W
R511	1-216-847-11	METAL CHIP	150K	5%	1/10W
R512	1-216-842-11	METAL CHIP	56K	5%	1/10W
R513	1-216-842-11	METAL CHIP	56K	5%	1/10W
R516	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R517	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R519	1-216-845-11	METAL CHIP	100K	5%	1/10W
R520	1-216-833-11	METAL CHIP	10K	5%	1/10W
R521	1-216-845-11	METAL CHIP	100K	5%	1/10W
R522	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R523	1-216-833-11	METAL CHIP	10K	5%	1/10W
R524	1-216-833-11	METAL CHIP	10K	5%	1/10W
R525	1-216-833-11	METAL CHIP	10K	5%	1/10W
R527	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R528	1-216-864-11	METAL CHIP	0	5%	1/10W
R529	1-216-839-11	METAL CHIP	33K	5%	1/10W
R530	1-216-842-11	METAL CHIP	56K	5%	1/10W
R531	1-216-864-11	METAL CHIP	0	5%	1/10W
R532	1-216-864-11	METAL CHIP	0	5%	1/10W
R533	1-216-839-11	METAL CHIP	33K	5%	1/10W
R534	1-216-842-11	METAL CHIP	56K	5%	1/10W
R535	1-216-864-11	METAL CHIP	0	5%	1/10W
R536	1-216-833-11	METAL CHIP	10K	5%	1/10W
R537	1-216-843-11	METAL CHIP	68K	5%	1/10W
R538	1-216-864-11	METAL CHIP	0	5%	1/10W
R539	1-216-864-11	METAL CHIP	0	5%	1/10W
R540	1-216-864-11	METAL CHIP	0	5%	1/10W
R541	1-216-864-11	METAL CHIP	0	5%	1/10W
R543	1-216-864-11	METAL CHIP	0	5%	1/10W
R544	1-216-864-11	METAL CHIP	0	5%	1/10W
R545	1-216-833-11	METAL CHIP	10K	5%	1/10W
R547	1-216-864-11	METAL CHIP	0	5%	1/10W
R548	1-216-833-11	METAL CHIP	10K	5%	1/10W
R550	1-216-821-11	METAL CHIP	1K	5%	1/10W
R551	1-216-821-11	METAL CHIP	1K	5%	1/10W
R552	1-216-821-11	METAL CHIP	1K	5%	1/10W
R553	1-216-864-11	METAL CHIP	0	5%	1/10W
R554	1-216-864-11	METAL CHIP	0	5%	1/10W
R555	1-216-864-11	METAL CHIP	0	5%	1/10W
R558	1-216-841-11	METAL CHIP	47K	5%	1/10W
R559	1-216-821-11	METAL CHIP	1K	5%	1/10W
R560	1-216-821-11	METAL CHIP	1K	5%	1/10W

Ref. No.	Part No.	Description			Remarks
R561	1-216-821-11	METAL CHIP	1K	5%	1/10W
R562	1-216-821-11	METAL CHIP	1K	5%	1/10W
R563	1-216-821-11	METAL CHIP	1K	5%	1/10W
R564	1-216-821-11	METAL CHIP	1K	5%	1/10W
R565	1-216-821-11	METAL CHIP	1K	5%	1/10W
R566	1-216-833-11	METAL CHIP	10K	5%	1/10W
R567	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R568	1-216-857-11	METAL CHIP	1M	5%	1/10W
R569	1-216-864-11	METAL CHIP	0	5%	1/10W
R571	1-216-857-11	METAL CHIP	1M	5%	1/10W
R572	1-216-853-11	METAL CHIP	470K	5%	1/10W
R573	1-216-833-11	METAL CHIP	10K	5%	1/10W
R574	1-216-815-11	METAL CHIP	330	5%	1/10W (AEP, UK, RU, AUS)
R575	1-216-864-11	METAL CHIP	0	5%	1/10W
R576	1-216-864-11	METAL CHIP	0	5%	1/10W
R577	1-216-864-11	METAL CHIP	0	5%	1/10W
R578	1-216-864-11	METAL CHIP	0	5%	1/10W
R579	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R580	1-216-839-11	METAL CHIP	33K	5%	1/10W
R581	1-216-834-11	METAL CHIP	12K	5%	1/10W
R583	1-216-864-11	METAL CHIP	0	5%	1/10W
R584	1-216-839-11	METAL CHIP	33K	5%	1/10W
R585	1-216-864-11	METAL CHIP	0	5%	1/10W
R586	1-218-747-11	METAL CHIP	200K	5%	1/10W
R587	1-216-864-11	METAL CHIP	0	5%	1/10W
R588	1-216-833-11	METAL CHIP	10K	5%	1/10W
R589	1-216-833-11	METAL CHIP	10K	5%	1/10W
R592	1-216-864-11	METAL CHIP	0	5%	1/10W
R593	1-216-845-11	METAL CHIP	100K	5%	1/10W
R597	1-216-864-11	METAL CHIP	0	5%	1/10W (AEP)
R599	1-216-821-11	METAL CHIP	1K	5%	1/10W
R601	1-216-864-11	METAL CHIP	0	5%	1/10W
R602	1-216-821-11	METAL CHIP	1K	5%	1/10W (E3, E15, EA, MY, SP, TH, KR, PH, AUS)
R603	1-216-864-11	METAL CHIP	0	5%	1/10W (E3, E15, EA, MY, SP, TH, KR, PH, AUS)
R604	1-216-864-11	METAL CHIP	0	5%	1/10W (E3, E15, EA, MY, SP, TH, KR, PH, AUS)
R605	1-216-864-11	METAL CHIP	0	5%	1/10W (E3, E15, EA, MY, SP, TH, KR, PH, AUS)
R606	1-216-864-11	METAL CHIP	0	5%	1/10W (E3, E15, EA, MY, SP, TH, KR, PH, AUS)
R607	1-216-809-11	METAL CHIP	100	5%	1/10W (E3, E15, EA, MY, SP, TH, KR, PH, AUS)
R608	1-216-864-11	METAL CHIP	0	5%	1/10W (E3, E15, EA, MY, SP, TH, KR, PH, AUS)
R609	1-216-864-11	METAL CHIP	0	5%	1/10W (E3, E15, EA, MY, SP, TH, KR, PH, AUS)
R610	1-216-809-11	METAL CHIP	100	5%	1/10W (E3, E15, EA, MY, SP, TH, KR, PH, AUS)
R611	1-216-809-11	METAL CHIP	100	5%	1/10W (E3, E15, EA, MY, SP, TH, KR, PH, AUS)
R612	1-216-809-11	METAL CHIP	100	5%	1/10W (E3, E15, EA, MY, SP, TH, KR, PH, AUS)
R613	1-216-809-11	METAL CHIP	100	5%	1/10W (E3, E15, EA, MY, SP, TH, KR, PH, AUS)
R614	1-216-809-11	METAL CHIP	100	5%	1/10W (E3, E15, EA, MY, SP, TH, KR, PH, AUS)
R615	1-216-864-11	METAL CHIP	0	5%	1/10W
R616	1-216-809-11	METAL CHIP	100	5%	1/10W (E3, E15, EA, MY, SP, TH, KR, PH, AUS)
R617	1-216-809-11	METAL CHIP	100	5%	1/10W (E3, E15, EA, MY, SP, TH, KR, PH, AUS)
R618	1-216-857-11	METAL CHIP	1M	5%	1/10W (E3, E15, EA, MY, SP, TH, KR, PH, AUS)
R619	1-216-864-11	METAL CHIP	0	5%	1/10W (E3, E15, EA, MY, SP, TH, KR, PH, AUS)
R620	1-216-864-11	METAL CHIP	0	5%	1/10W (E3, E15, EA, MY, SP, TH, KR, PH, AUS)
R621	1-216-864-11	METAL CHIP	0	5%	1/10W (E3, E15, EA, MY, SP, TH, KR, PH, AUS)
R622	1-216-864-11	METAL CHIP	0	5%	1/10W (E3, E15, EA, MY, SP, TH, KR, PH, AUS)
R623	1-216-864-11	METAL CHIP	0	5%	1/10W (E3, E15, EA, MY, SP, TH, KR, PH, AUS)
R624	1-216-864-11	METAL CHIP	0	5%	1/10W (E3, E15, EA, MY, SP, TH, KR, PH, AUS)
R625	1-216-864-11	METAL CHIP	0	5%	1/10W (E3, E15, EA, MY, SP, TH, KR, PH, AUS)
R626	1-216-864-11	METAL CHIP	0	5%	1/10W (E3, E15, EA, MY, SP, TH, KR, PH, AUS)
R627	1-216-864-11	METAL CHIP	0	5%	1/10W (E3, E15, EA, MY, SP, TH, KR, PH, AUS)
R628	1-216-864-11	METAL CHIP	0	5%	1/10W (E3, E15, EA, MY, SP, TH, KR, PH, AUS)
R629	1-216-864-11	METAL CHIP	0	5%	1/10W
R630	1-216-864-11	METAL CHIP	0	5%	1/10W (E3, E15, EA, MY, SP, TH, KR, PH, AUS)
R631	1-216-864-11	METAL CHIP	0	5%	1/10W (E3, E15, EA, MY, SP, TH, KR, PH, AUS)
R633	1-216-864-11	METAL CHIP	0	5%	1/10W (E3, E15, EA, MY, SP, TH, KR, PH, AUS)
R694	1-216-833-11	METAL CHIP	10K	5%	1/10W
R695	1-216-864-11	METAL CHIP	0	5%	1/10W
R696	1-216-864-11	METAL CHIP	0	5%	1/10W
R698	1-216-864-11	METAL CHIP	0	5%	1/10W
R699	1-216-864-11	METAL CHIP	0	5%	1/10W
R700	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R707	1-216-809-11	METAL CHIP	100	5%	1/10W
R708	1-216-853-11	METAL CHIP	470K	5%	1/10W
R709	1-216-847-11	METAL CHIP	150K	5%	1/10W
R710	1-216-833-11	METAL CHIP	10K	5%	1/10W
R711	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R712	1-216-833-11	METAL CHIP	10K	5%	1/10W
R713	1-216-833-11	METAL CHIP	10K	5%	1/10W
R714	1-216-833-11	METAL CHIP	10K	5%	1/10W
R715	1-216-833-11	METAL CHIP	10K	5%	1/10W
R716	1-216-809-11	METAL CHIP	100	5%	1/10W
R717	1-216-845-11	METAL CHIP	100K	5%	1/10W
R718	1-216-833-11	METAL CHIP	10K	5%	1/10W
R719	1-216-821-11	METAL CHIP	1K	5%	1/10W
R720	1-216-821-11	METAL CHIP	1K	5%	1/10W
R721	1-216-839-11	METAL CHIP	33K	5%	1/10W
R724	1-216-821-11	METAL CHIP	1K	5%	1/10W
R725	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
R726	1-216-845-11	METAL CHIP	100K	5%	1/10W
R727	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R728	1-216-833-11	METAL CHIP	10K	5%	1/10W

DMB03

Ref. No.	Part No.	Description			Remarks
R730	1-216-801-11	METAL CHIP	22	5%	1/10W
R731	1-216-801-11	METAL CHIP	22	5%	1/10W
R732	1-216-833-11	METAL CHIP	10K	5%	1/10W
R733	1-216-833-11	METAL CHIP	10K	5%	1/10W
R734	1-216-833-11	METAL CHIP	10K	5%	1/10W
R735	1-216-833-11	METAL CHIP	10K	5%	1/10W
R736	1-216-833-11	METAL CHIP	10K	5%	1/10W
R737	1-216-833-11	METAL CHIP	10K	5%	1/10W
R738	1-216-833-11	METAL CHIP	10K	5%	1/10W
R741	1-216-801-11	METAL CHIP	22	5%	1/10W
R742	1-216-801-11	METAL CHIP	22	5%	1/10W
R743	1-216-801-11	METAL CHIP	22	5%	1/10W
R744	1-216-801-11	METAL CHIP	22	5%	1/10W
R745	1-216-841-11	METAL CHIP	47K	5%	1/10W
R746	1-216-841-11	METAL CHIP	47K	5%	1/10W
R747	1-216-839-11	METAL CHIP	33K	5%	1/10W
R748	1-216-839-11	METAL CHIP	33K	5%	1/10W
R750	1-216-833-11	METAL CHIP	10K	5%	1/10W
R751	1-216-864-11	METAL CHIP	0	5%	1/10W
R752	1-216-864-11	METAL CHIP	0	5%	1/10W
R753	1-216-864-11	METAL CHIP	0	5%	1/10W
R754	1-216-864-11	METAL CHIP	0	5%	1/10W
R755	1-216-864-11	METAL CHIP	0	5%	1/10W
R756	1-216-864-11	METAL CHIP	0	5%	1/10W
R757	1-216-864-11	METAL CHIP	0	5%	1/10W
R758	1-216-864-11	METAL CHIP	0	5%	1/10W
R759	1-216-864-11	METAL CHIP	0	5%	1/10W
R762	1-216-837-11	METAL CHIP	22K	5%	1/10W
R763	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R764	1-216-857-11	METAL CHIP	1M	5%	1/10W
R765	1-216-837-11	METAL CHIP	22K	5%	1/10W
R766	1-216-864-11	METAL CHIP	0	5%	1/10W
R767	1-216-841-11	METAL CHIP	47K	5%	1/10W
R769	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R770	1-216-864-11	METAL CHIP	0	5%	1/10W
R776	1-216-864-11	METAL CHIP	0	5%	1/10W
R777	1-216-864-11	METAL CHIP	0	5%	1/10W
R778	1-216-845-11	METAL CHIP	100K	5%	1/10W
R780	1-216-864-11	METAL CHIP	0	5%	1/10W
R781	1-216-864-11	METAL CHIP	0	5%	1/10W
R784	1-216-864-11	METAL CHIP	0	5%	1/10W
R785	1-216-833-11	METAL CHIP	10K	5%	1/10W
R786	1-216-845-11	METAL CHIP	100K	5%	1/10W
R787	1-216-845-11	METAL CHIP	100K	5%	1/10W
R788	1-216-845-11	METAL CHIP	100K	5%	1/10W
R789	1-216-845-11	METAL CHIP	100K	5%	1/10W
R799	1-216-864-11	METAL CHIP	0	5%	1/10W
R805	1-216-864-11	METAL CHIP	0	5%	1/10W
R901	1-216-801-11	METAL CHIP	22	5%	1/10W
R902	1-216-801-11	METAL CHIP	22	5%	1/10W
R904	1-216-833-11	METAL CHIP	10K	5%	1/10W
R905	1-216-801-11	METAL CHIP	22	5%	1/10W
R906	1-216-801-11	METAL CHIP	22	5%	1/10W
R907	1-216-801-11	METAL CHIP	22	5%	1/10W
R908	1-216-833-11	METAL CHIP	10K	5%	1/10W
R910	1-216-864-11	METAL CHIP	0	5%	1/10W
R911	1-216-833-11	METAL CHIP	10K	5%	1/10W
R912	1-216-833-11	METAL CHIP	10K	5%	1/10W
R913	1-216-833-11	METAL CHIP	10K	5%	1/10W
R915	1-216-809-11	METAL CHIP	100	5%	1/10W
R916	1-216-821-11	METAL CHIP	1K	5%	1/10W
R917	1-216-821-11	METAL CHIP	1K	5%	1/10W
R918	1-216-801-11	METAL CHIP	22	5%	1/10W
R919	1-216-864-11	METAL CHIP	0	5%	1/10W
R920	1-216-809-11	METAL CHIP	100	5%	1/10W
R921	1-216-809-11	METAL CHIP	100	5%	1/10W
R922	1-216-801-11	METAL CHIP	22	5%	1/10W
R923	1-216-813-11	METAL CHIP	220	5%	1/10W
R925	1-216-809-11	METAL CHIP	100	5%	1/10W
R926	1-216-809-11	METAL CHIP	100	5%	1/10W
R927	1-216-857-11	METAL CHIP	1M	5%	1/10W
R928	1-216-809-11	METAL CHIP	100	5%	1/10W
R929	1-216-809-11	METAL CHIP	100	5%	1/10W
R930	1-216-809-11	METAL CHIP	100	5%	1/10W
R931	1-216-801-11	METAL CHIP	22	5%	1/10W
R932	1-216-801-11	METAL CHIP	22	5%	1/10W
R933	1-216-801-11	METAL CHIP	22	5%	1/10W
R935	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R940	1-216-809-11	METAL CHIP	100	5%	1/10W
R942	1-216-809-11	METAL CHIP	100	5%	1/10W
R943	1-216-809-11	METAL CHIP	100	5%	1/10W
R947	1-216-864-11	METAL CHIP	0	5%	1/10W
R948	1-216-864-11	METAL CHIP	0	5%	1/10W
R949	1-216-864-11	METAL CHIP	0	5%	1/10W
R958	1-216-801-11	METAL CHIP	22	5%	1/10W
R962	1-216-833-11	METAL CHIP	10K	5%	1/10W
R964	1-216-833-11	METAL CHIP	10K	5%	1/10W
R970	1-216-864-11	METAL CHIP	0	5%	1/10W
R971	1-216-864-11	METAL CHIP	0	5%	1/10W
R973	1-216-864-11	METAL CHIP	0	5%	1/10W
R974	1-216-864-11	METAL CHIP	0	5%	1/10W
R975	1-216-833-11	METAL CHIP	10K	5%	1/10W
R976	1-216-864-11	METAL CHIP	0	5%	1/10W
R978	1-216-833-11	METAL CHIP	10K	5%	1/10W
R984	1-216-833-11	METAL CHIP	10K	5%	1/10W
R988	1-216-864-11	METAL CHIP	0	5%	1/10W
R990	1-216-864-11	METAL CHIP	0	5%	1/10W
R991	1-216-864-11	METAL CHIP	0	5%	1/10W
R992	1-216-864-11	METAL CHIP	0	5%	1/10W
R994	1-216-864-11	METAL CHIP	0	5%	1/10W
R995	1-216-864-11	METAL CHIP	0	5%	1/10W
R996	1-216-864-11	METAL CHIP	0	5%	1/10W
R997	1-216-864-11	METAL CHIP	0	5%	1/10W
R998	1-216-864-11	METAL CHIP	0	5%	1/10W
R1000	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1001	1-216-864-11	METAL CHIP	0	5%	1/10W (AEP, UK, RU, AUS)
R1101	1-164-156-11	CERAMIC CHIP	0.1uF		25V
R1201	1-216-864-11	METAL CHIP	0	5%	1/10W
R1202	1-164-156-11	CERAMIC CHIP	0.1uF		25V
R1301	1-164-156-11	CERAMIC CHIP	0.1uF		25V
R1302	1-216-864-11	METAL CHIP	0	5%	1/10W
R1303	1-164-156-11	CERAMIC CHIP	0.1uF		25V
R1304	1-164-156-11	CERAMIC CHIP	0.1uF		25V
R1801	1-164-156-11	CERAMIC CHIP	0.1uF		25V

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description			Remarks
R1803	1-164-156-11	CERAMIC CHIP	0.1uF		25V
R9980	1-216-864-11	METAL CHIP	0	5%	1/10W
R9981	1-216-864-11	METAL CHIP	0	5%	1/10W
R9982	1-216-864-11	METAL CHIP	0	5%	1/10W
R9983	1-216-864-11	METAL CHIP	0	5%	1/10W
R9984	1-216-864-11	METAL CHIP	0	5%	1/10W
R9985	1-216-864-11	METAL CHIP	0	5%	1/10W
R9986	1-216-864-11	METAL CHIP	0	5%	1/10W
R9987	1-216-864-11	METAL CHIP	0	5%	1/10W
R9988	1-216-864-11	METAL CHIP	0	5%	1/10W
R9993	1-216-864-11	METAL CHIP	0	5%	1/10W
R9994	1-216-864-11	METAL CHIP	0	5%	1/10W
R9998	1-216-864-11	METAL CHIP	0	5%	1/10W
R9999	1-216-864-11	METAL CHIP	0	5%	1/10W
		< COMPOSITION CIRCUIT BLOCK >			
RB10	1-233-388-11	RES, NETWORK 68 (3216)			
RB11	1-233-388-11	RES, NETWORK 68 (3216)			
RB12	1-233-388-11	RES, NETWORK 68 (3216)			
RB13	1-233-388-11	RES, NETWORK 68 (3216)			
RB14	1-233-388-11	RES, NETWORK 68 (3216)			
RB15	1-233-388-11	RES, NETWORK 68 (3216)			
RB16	1-233-388-11	RES, NETWORK 68 (3216)			
RB17	1-233-388-11	RES, NETWORK 68 (3216)			
RB18	1-234-524-21	RES, CHIP NETWORK 33			
RB19	1-234-524-21	RES, CHIP NETWORK 33			
RB20	1-234-524-21	RES, CHIP NETWORK 33			
RB21	1-234-524-21	RES, CHIP NETWORK 33			
		< VIBRATOR >			
X601	1-795-126-21	VIBRATOR, CRYSTAL (12.288MHz) (E3, E15, EA, MY, SP, TH, KR, PH, AUS)			
X901	1-781-945-21	VIBRATOR, CERAMIC (20MHz)			
X902	1-795-630-11	VIBRATOR, CRYSTAL (27MHz)			
**********					
	1-687-205-11	ENTER-SW BOARD			
		**********			
		< RESISTOR >			
R646	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R647	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R648	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R649	1-216-833-11	METAL CHIP	10K	5%	1/10W
R650	1-216-835-11	METAL CHIP	15K	5%	1/10W
		< SWITCH >			
S637	1-771-879-11	SWITCH, TACTILE (PUSH ENTER)			
**********					
	1-687-208-11	HP AMP BOARD			
		**********			
		< CONNECTOR >			
CN601	1-785-329-11	PIN, CONNECTOR (LIGHT ANGLE)3P			
		< TERMINAL >			
EP601	1-537-738-21	TERMINAL, GROUND			

Ref. No.	Part No.	Description			Remarks
		< JACK >			
J603	1-793-829-11	JACK, HEADPHONE (🎧)			
**********					
	A-4732-447-A	LCD BOARD, COMPLETE (EXCEPT TH)			
		**********			
	A-4734-602-A	LCD BOARD, COMPLETE (TH)			
		**********			
		< CAPACITOR >			
C246	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C247	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C248	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C249	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C250	1-126-160-11	ELECT	1uF	20%	50V
C251	1-126-160-11	ELECT	1uF	20%	50V
C252	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C261	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C262	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C263	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C264	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C265	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C266	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C267	1-164-156-11	CERAMIC CHIP	0.1uF		25V
		< DIODE >			
D261	8-719-988-61	DIODE 1SS355TE-17			
D262	8-719-988-61	DIODE 1SS355TE-17			
		< RESISTOR >			
R252	1-216-833-11	METAL CHIP	10K	5%	1/10W
R253	1-216-833-11	METAL CHIP	10K	5%	1/10W
R254	1-216-809-11	METAL CHIP	100	5%	1/10W
R255	1-216-809-11	METAL CHIP	100	5%	1/10W
R256	1-216-809-11	METAL CHIP	100	5%	1/10W
R257	1-216-809-11	METAL CHIP	100	5%	1/10W
R258	1-216-809-11	METAL CHIP	100	5%	1/10W
**********					
	A-4732-199-A	MAIN BOARD, COMPLETE (AEP, UK)			
		**********			
	A-4732-213-A	MAIN BOARD, COMPLETE (E2)			
		**********			
	A-4732-319-A	MAIN BOARD, COMPLETE (MY, SP, KR, PH)			
		**********			
	A-4732-326-A	MAIN BOARD, COMPLETE (EA)			
		**********			
	A-4732-329-A	MAIN BOARD, COMPLETE (AUS)			
		**********			
	A-4734-568-A	MAIN BOARD, COMPLETE (E3, E15)			
		**********			
	A-4734-597-A	MAIN BOARD, COMPLETE (TH)			
		**********			
	A-4734-805-A	MAIN BOARD, COMPLETE (RU)			
		**********			
		< CAPACITOR >			
C102	1-126-964-11	ELECT	10uF	20.00%	50V
C104	1-124-261-00	ELECT	10uF	20%	50V
C106	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C107	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V

MAIN

Ref. No.	Part No.	Description			Remarks
C108	1-126-964-11	ELECT	10uF	20.00%	50V
C109	1-110-563-11	CERAMIC CHIP	0.068uF	10.00%	16V
C110	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C111	1-126-964-11	ELECT	10uF	20.00%	50V
C112	1-137-189-11	FILM	0.18uF	5.00%	50V
C113	1-136-171-00	FILM	0.33uF	5.00%	50V
C114	1-124-261-00	ELECT	10uF	20%	50V
C123	1-104-665-11	ELECT	100uF	20.00%	10V
C124	1-124-261-00	ELECT	10uF	20%	50V (EXCEPT AEP, UK, RU)
C125	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C126	1-104-665-11	ELECT	100uF	20.00%	10V
C129	1-126-964-11	ELECT	10uF	20.00%	50V
C133	1-126-964-11	ELECT	10uF	20.00%	50V
C134	1-126-967-11	ELECT	47uF	20.00%	50V
C140	1-126-960-11	ELECT	1uF	20.00%	50V
C152	1-126-964-11	ELECT	10uF	20.00%	50V
C154	1-124-261-00	ELECT	10uF	20%	50V
C156	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C157	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C158	1-126-964-11	ELECT	10uF	20.00%	50V
C159	1-110-563-11	CERAMIC CHIP	0.068uF	10.00%	16V
C160	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C161	1-126-964-11	ELECT	10uF	20.00%	50V
C162	1-137-189-11	FILM	0.18uF	5.00%	50V
C163	1-136-171-00	FILM	0.33uF	5.00%	50V
C164	1-124-261-00	ELECT	10uF	20%	50V
C165	1-126-964-11	ELECT	10uF	20.00%	50V
C166	1-104-665-11	ELECT	100uF	20.00%	10V
C170	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C171	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C172	1-126-964-11	ELECT	10uF	20.00%	50V
C173	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C174	1-126-964-11	ELECT	10uF	20.00%	50V
C175	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C177	1-126-926-11	ELECT	1000uF	20.00%	10V
C179	1-124-261-00	ELECT	10uF	20%	50V
C180	1-216-864-11	METAL CHIP	0	5%	1/10W
C181	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C182	1-126-964-11	ELECT	10uF	20.00%	50V
C183	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C184	1-126-964-11	ELECT	10uF	20.00%	50V
C187	1-126-926-11	ELECT	1000uF	20.00%	10V
C189	1-124-261-00	ELECT	10uF	20%	50V
C190	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C193	1-126-926-11	ELECT	1000uF	20.00%	10V
C194	1-104-665-11	ELECT	100uF	20.00%	10V
C198	1-126-960-11	ELECT	1uF	20.00%	50V
C220	1-104-665-11	ELECT	100uF	20.00%	10V (AEP, UK, RU, AUS)
C221	1-104-665-11	ELECT	100uF	20.00%	10V
C222	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C225	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C226	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C227	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C242	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C244	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C253	1-126-960-11	ELECT	1uF	20.00%	50V
C254	1-126-964-11	ELECT	10uF	20.00%	50V
C255	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C270	1-104-665-11	ELECT	100uF	20.00%	10V
C271	1-104-665-11	ELECT	100uF	20.00%	10V
C272	1-104-665-11	ELECT	100uF	20.00%	10V
C292	1-136-165-00	FILM	0.1uF	5.00%	50V
C293	1-136-165-00	FILM	0.1uF	5.00%	50V
C294	1-126-964-11	ELECT	10uF	20.00%	50V
C400	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C401	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C402	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C403	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C410	1-162-918-11	CERAMIC CHIP	18PF	5.00%	50V
C411	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C412	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C416	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C417	1-104-656-11	ELECT	2200uF	20.00%	6.3V
C452	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C462	1-104-665-11	ELECT	100uF	20.00%	10V
C463	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C475	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C476	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C497	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C498	1-126-964-11	ELECT	10uF	20.00%	50V
C499	1-164-156-11	CERAMIC CHIP	0.1uF		25V
		< CONNECTOR >			
CN101	1-779-275-11	CONNECTOR, FFC (LIF (NON-ZIF)) 7P			
CN102	1-779-279-11	CONNECTOR, FFC (LIF (NON-ZIF)) 11P (E3, E15, EA, MY, SP, KR, TH, PH, AUS)			
CN103	1-779-273-11	CONNECTOR, FFC (LIF (NON-ZIF)) 5P			
CN104	1-784-776-11	CONNECTOR, FFC 15P (AEP, UK)			
CN104	1-568-830-11	CONNECTOR, FFC 11P (EXCEPT AEP, UK)			
CN105	1-784-786-11	CONNECTOR, FFC 25P (AEP, UK, RU, AUS)			
CN105	1-784-784-11	CONNECTOR, FFC 23P (EXCEPT AEP, UK, RU, AUS)			
CN107	1-691-907-11	PIN, CONNECTOR 15P			
CN108	1-785-321-11	PIN, CONNECTOR (STRAIGHT) 9P			
CN109	1-784-784-11	CONNECTOR, FFC 23P			
CN110	1-770-827-21	CONNECTOR, BOARD TO BOARD 16P			
CN111	1-573-847-11	CONNECTOR, BOARD TO BOARD 15P			
CN401	1-785-316-11	PIN, CONNECTOR (STRAIGHT) 4P			
		< DIODE >			
D191	8-719-058-24	DIODE RB501V-40TE-17			
D192	8-719-058-24	DIODE RB501V-40TE-17			
D193	8-719-988-61	DIODE 1SS355TE-17			
D201	8-719-988-61	DIODE 1SS355TE-17			
D202	8-719-988-61	DIODE 1SS355TE-17 (EXCEPT TH)			
D252	8-719-988-61	DIODE 1SS355TE-17 (AEP, UK)			
D284	8-719-988-61	DIODE 1SS355TE-17			
D292	8-719-988-61	DIODE 1SS355TE-17			
D293	8-719-988-61	DIODE 1SS355TE-17			
D294	8-719-988-61	DIODE 1SS355TE-17			
D295	8-719-988-61	DIODE 1SS355TE-17			
D402	8-719-988-61	DIODE 1SS355TE-17			
D403	8-719-988-61	DIODE 1SS355TE-17			

Ref. No.	Part No.	Description			Remarks
		< TERMINAL >			
EP102	1-537-738-21	TERMINAL, GROUND			
		< FERRITE BEAD >			
FB416	1-500-445-21	FERRITE	0uH		
FB462	1-216-864-11	METAL CHIP	0	5%	1/10W
FB499	1-216-864-11	METAL CHIP	0	5%	1/10W
		< IC >			
IC101	6-703-650-11	IC M61529FP-D60G			
IC103	8-759-545-66	IC NJM3414AM-TE2			
IC201	8-749-019-25	IC TOTX141 (DVD DIGITAL OUT (OPTICAL))			(AEP, UK, RU, AUS)
IC202	8-759-598-69	IC BA6956AN			
IC251	8-759-532-64	IC M62703SL-TP			
IC401	6-803-530-01	IC M30622MGN-B24FP (AEP, UK, RU, E2)			
IC401	6-803-531-01	IC M30622MGN-B25FP			(E3, E15, EA, MY, SP, KR, TH, PH, AUS)
		< JACK >			
J101	1-794-212-11	JACK, PIN 4P (MD (VIDEO) IN/OUT)			
		< JUMPER RESISTOR >			
JR1	1-216-864-11	METAL CHIP	0	5%	1/10W
JR21	1-216-864-11	METAL CHIP	0	5%	1/10W
JR418	1-216-864-11	METAL CHIP	0	5%	1/10W (EXCEPT AEP, UK, RU)
JR440	1-216-864-11	METAL CHIP	0	5%	1/10W (EXCEPT AEP, UK, RU)
		< COIL >			
L220	1-412-064-11	INDUCTOR	100uH (AEP, UK, RU, AUS)		
		< TRANSISTOR >			
Q101	8-729-120-28	TRANSISTOR	2SC1623-T1-L5L6		
Q151	8-729-120-28	TRANSISTOR	2SC1623-T1-L5L6		
Q161	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16		
Q171	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16		
Q181	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16		
Q182	8-729-026-68	TRANSISTOR	2SD2525 (TP)		
Q191	8-729-120-28	TRANSISTOR	2SC1623-T1-L5L6		
Q270	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16		
Q271	8-729-141-73	TRANSISTOR	2SC3624A-T1L15L16		
Q272	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q273	8-729-900-53	TRANSISTOR	DTC114EKA-T146		
Q274	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q275	8-729-900-53	TRANSISTOR	DTC114EKA-T146		
Q276	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q277	8-729-900-53	TRANSISTOR	DTC114EKA-T146		
Q293	8-729-120-28	TRANSISTOR	2SC1623-T1-L5L6		
Q401	8-729-027-23	TRANSISTOR	DTA114EKA-T146		(EXCEPT AEP, UK, RU)
		< RESISTOR >			
R101	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R102	1-216-833-11	METAL CHIP	10K	5%	1/10W
R103	1-216-833-11	METAL CHIP	10K	5%	1/10W
R104	1-216-819-11	METAL CHIP	680	5%	1/10W
R105	1-216-845-11	METAL CHIP	100K	5%	1/10W
R106	1-216-864-11	METAL CHIP	0	5%	1/10W
R112	1-216-833-11	METAL CHIP	10K	5%	1/10W
R113	1-216-833-11	METAL CHIP	10K	5%	1/10W
R114	1-216-864-11	METAL CHIP	0	5%	1/10W
R115	1-216-864-11	METAL CHIP	0	5%	1/10W
R140	1-216-857-11	METAL CHIP	1M	5%	1/10W
R149	1-216-801-11	METAL CHIP	22	5%	1/10W
R150	1-216-841-11	METAL CHIP	47K	5%	1/10W
R151	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R152	1-216-833-11	METAL CHIP	10K	5%	1/10W
R153	1-216-833-11	METAL CHIP	10K	5%	1/10W
R154	1-216-819-11	METAL CHIP	680	5%	1/10W
R155	1-216-845-11	METAL CHIP	100K	5%	1/10W
R156	1-216-864-11	METAL CHIP	0	5%	1/10W
R159	1-216-801-11	METAL CHIP	22	5%	1/10W
R160	1-216-841-11	METAL CHIP	47K	5%	1/10W
R166	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R167	1-216-828-11	METAL CHIP	4.3K	5%	1/10W
R168	1-216-815-11	METAL CHIP	330	5%	1/10W
R171	1-216-821-11	METAL CHIP	1K	5%	1/10W
R172	1-216-845-11	METAL CHIP	100K	5%	1/10W
R173	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R174	1-216-845-11	METAL CHIP	100K	5%	1/10W
R175	1-216-833-11	METAL CHIP	10K	5%	1/10W
R176	1-216-841-11	METAL CHIP	47K	5%	1/10W
R177	1-216-845-11	METAL CHIP	100K	5%	1/10W
R178	1-216-821-11	METAL CHIP	1K	5%	1/10W
R179	1-216-801-11	METAL CHIP	22	5%	1/10W
R180	1-216-833-11	METAL CHIP	10K	5%	1/10W
R181	1-216-821-11	METAL CHIP	1K	5%	1/10W
R182	1-216-845-11	METAL CHIP	100K	5%	1/10W
R183	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R184	1-216-845-11	METAL CHIP	100K	5%	1/10W
R185	1-216-833-11	METAL CHIP	10K	5%	1/10W
R186	1-216-841-11	METAL CHIP	47K	5%	1/10W
R187	1-216-845-11	METAL CHIP	100K	5%	1/10W
R188	1-216-821-11	METAL CHIP	1K	5%	1/10W
R189	1-216-801-11	METAL CHIP	22	5%	1/10W
R190	1-216-833-11	METAL CHIP	10K	5%	1/10W
R193	1-216-837-11	METAL CHIP	22K	5%	1/10W
R194	1-216-843-11	METAL CHIP	68K	5%	1/10W
R195	1-216-809-11	METAL CHIP	100	5%	1/10W
R196	1-216-815-11	METAL CHIP	330	5%	1/10W
R197	1-216-821-11	METAL CHIP	1K	5%	1/10W
R198	1-216-821-11	METAL CHIP	1K	5%	1/10W
R199	1-216-845-11	METAL CHIP	100K	5%	1/10W
R221	1-216-821-11	METAL CHIP	1K	5%	1/10W
R222	1-216-819-11	METAL CHIP	680	5%	1/10W
R241	1-216-864-11	METAL CHIP	0	5%	1/10W (EXCEPT E2, TH)
R241	1-216-833-11	METAL CHIP	10K	5%	1/10W (E2)
R242	1-216-845-11	METAL CHIP	100K	5%	1/10W (E2)
R270	1-216-821-11	METAL CHIP	1K	5%	1/10W
R271	1-216-821-11	METAL CHIP	1K	5%	1/10W

MAIN

Ref. No.	Part No.	Description			Remarks
R273	1-216-813-11	METAL CHIP	220	5%	1/10W
R274	1-216-821-11	METAL CHIP	1K	5%	1/10W
R275	1-216-821-11	METAL CHIP	1K	5%	1/10W
R277	1-216-813-11	METAL CHIP	220	5%	1/10W
R279	1-216-813-11	METAL CHIP	220	5%	1/10W
R280	1-216-864-11	METAL CHIP	0	5%	1/10W
R291	1-216-864-11	METAL CHIP	0	5%	1/10W
					(EXCEPT E2, TH)
R291	1-216-833-11	METAL CHIP	10K	5%	1/10W
					(E2)
R292	1-216-845-11	METAL CHIP	100K	5%	1/10W
					(E2)
R294	1-216-833-11	METAL CHIP	10K	5%	1/10W
R295	1-216-837-11	METAL CHIP	22K	5%	1/10W
R296	1-216-837-11	METAL CHIP	22K	5%	1/10W
R297	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R298	1-216-813-11	METAL CHIP	220	5%	1/10W
R299	1-216-833-11	METAL CHIP	10K	5%	1/10W
R400	1-216-833-11	METAL CHIP	10K	5%	1/10W
					(EXCEPT AEP, UK, RU)
R401	1-216-864-11	METAL CHIP	0	5%	1/10W
					(AEP, UK, RU)
R402	1-216-833-11	METAL CHIP	10K	5%	1/10W
R404	1-216-809-11	METAL CHIP	100	5%	1/10W
R405	1-216-809-11	METAL CHIP	100	5%	1/10W
					(E3, E15, EA, MY, SP, KR, TH, PH, AUS)
R406	1-216-809-11	METAL CHIP	100	5%	1/10W
					(E3, E15, EA, MY, SP, KR, TH, PH, AUS)
R407	1-216-809-11	METAL CHIP	100	5%	1/10W
					(E3, E15, EA, MY, SP, KR, TH, PH, AUS)
R408	1-216-833-11	METAL CHIP	10K	5%	1/10W
R409	1-216-833-11	METAL CHIP	10K	5%	1/10W
R410	1-216-833-11	METAL CHIP	10K	5%	1/10W
R411	1-216-851-11	METAL CHIP	330K	5%	1/10W
R412	1-216-833-11	METAL CHIP	10K	5%	1/10W
R413	1-216-864-11	METAL CHIP	0	5%	1/10W
R414	1-216-833-11	METAL CHIP	10K	5%	1/10W
R415	1-216-833-11	METAL CHIP	10K	5%	1/10W
R416	1-216-833-11	METAL CHIP	10K	5%	1/10W
R417	1-216-833-11	METAL CHIP	10K	5%	1/10W
R418	1-216-809-11	METAL CHIP	100	5%	1/10W
					(AEP, UK)
R420	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R421	1-216-809-11	METAL CHIP	100	5%	1/10W
					(E3, E15, EA, MY, SP, KR, TH, PH, AUS)
R422	1-216-809-11	METAL CHIP	100	5%	1/10W
					(E3, E15, EA, MY, SP, KR, TH, PH, AUS)
R423	1-216-809-11	METAL CHIP	100	5%	1/10W
					(E3, E15, EA, MY, SP, KR, TH, PH, AUS)
R424	1-216-809-11	METAL CHIP	100	5%	1/10W
					(E3, E15, EA, MY, SP, KR, TH, PH, AUS)
R425	1-216-809-11	METAL CHIP	100	5%	1/10W
					(E3, E15, EA, MY, SP, KR, TH, PH, AUS)
R426	1-216-809-11	METAL CHIP	100	5%	1/10W
					(E3, E15, EA, MY, SP, KR, TH, PH, AUS)
R427	1-216-809-11	METAL CHIP	100	5%	1/10W
					(E3, E15, EA, MY, SP, KR, TH, PH, AUS)
R429	1-216-809-11	METAL CHIP	100	5%	1/10W
R430	1-216-809-11	METAL CHIP	100	5%	1/10W
R431	1-216-809-11	METAL CHIP	100	5%	1/10W
R433	1-216-809-11	METAL CHIP	100	5%	1/10W
R434	1-216-833-11	METAL CHIP	10K	5%	1/10W
R435	1-216-809-11	METAL CHIP	100	5%	1/10W
R436	1-216-809-11	METAL CHIP	100	5%	1/10W
R437	1-216-809-11	METAL CHIP	100	5%	1/10W
R438	1-216-809-11	METAL CHIP	100	5%	1/10W
R439	1-216-809-11	METAL CHIP	100	5%	1/10W
R440	1-216-809-11	METAL CHIP	100	5%	1/10W
					(AEP, UK)
R441	1-216-809-11	METAL CHIP	100	5%	1/10W
R442	1-216-809-11	METAL CHIP	100	5%	1/10W
R443	1-216-809-11	METAL CHIP	100	5%	1/10W
R444	1-216-809-11	METAL CHIP	100	5%	1/10W
R445	1-216-809-11	METAL CHIP	100	5%	1/10W
R446	1-216-809-11	METAL CHIP	100	5%	1/10W
R447	1-216-809-11	METAL CHIP	100	5%	1/10W
R448	1-216-809-11	METAL CHIP	100	5%	1/10W
R449	1-216-809-11	METAL CHIP	100	5%	1/10W
R450	1-216-809-11	METAL CHIP	100	5%	1/10W
R451	1-216-857-11	METAL CHIP	1M	5%	1/10W
R452	1-216-809-11	METAL CHIP	100	5%	1/10W
					(EXCEPT AEP, UK, RU)
R453	1-216-833-11	METAL CHIP	10K	5%	1/10W
R454	1-216-809-11	METAL CHIP	100	5%	1/10W
R455	1-216-809-11	METAL CHIP	100	5%	1/10W
R456	1-216-809-11	METAL CHIP	100	5%	1/10W
R457	1-216-809-11	METAL CHIP	100	5%	1/10W
R458	1-216-809-11	METAL CHIP	100	5%	1/10W
R459	1-216-809-11	METAL CHIP	100	5%	1/10W
R460	1-216-809-11	METAL CHIP	100	5%	1/10W
R461	1-216-809-11	METAL CHIP	100	5%	1/10W
R462	1-216-833-11	METAL CHIP	10K	5%	1/10W
R463	1-216-809-11	METAL CHIP	100	5%	1/10W
R464	1-216-833-11	METAL CHIP	10K	5%	1/10W
R465	1-216-809-11	METAL CHIP	100	5%	1/10W
R466	1-216-809-11	METAL CHIP	100	5%	1/10W
R467	1-216-809-11	METAL CHIP	100	5%	1/10W
R468	1-216-809-11	METAL CHIP	100	5%	1/10W
R469	1-216-809-11	METAL CHIP	100	5%	1/10W
R470	1-216-809-11	METAL CHIP	100	5%	1/10W
R471	1-216-809-11	METAL CHIP	100	5%	1/10W
R472	1-216-809-11	METAL CHIP	100	5%	1/10W
R473	1-216-809-11	METAL CHIP	100	5%	1/10W
R474	1-216-809-11	METAL CHIP	100	5%	1/10W
R475	1-216-809-11	METAL CHIP	100	5%	1/10W
R476	1-216-809-11	METAL CHIP	100	5%	1/10W
R478	1-216-809-11	METAL CHIP	100	5%	1/10W
R479	1-216-809-11	METAL CHIP	100	5%	1/10W
R480	1-216-809-11	METAL CHIP	100	5%	1/10W
R481	1-216-809-11	METAL CHIP	100	5%	1/10W
R482	1-216-809-11	METAL CHIP	100	5%	1/10W
R483	1-216-809-11	METAL CHIP	100	5%	1/10W
R484	1-216-809-11	METAL CHIP	100	5%	1/10W
R485	1-216-833-11	METAL CHIP	10K	5%	1/10W
R486	1-216-833-11	METAL CHIP	10K	5%	1/10W
R487	1-216-809-11	METAL CHIP	100	5%	1/10W
R488	1-216-809-11	METAL CHIP	100	5%	1/10W
R489	1-216-809-11	METAL CHIP	100	5%	1/10W

Ref. No.	Part No.	Description			Remarks
R490	1-216-809-11	METAL CHIP	100	5%	1/10W
R491	1-216-809-11	METAL CHIP	100	5%	1/10W
R492	1-216-809-11	METAL CHIP	100	5%	1/10W
R493	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (AEP, UK, RU, E2)
R493	1-216-823-11	METAL CHIP	1.5K	5%	1/10W (AUS)
R493	1-216-864-11	METAL CHIP	0	5%	1/10W (MY, SP, KR, TH, PH)
R493	1-216-821-11	METAL CHIP	1K	5%	1/10W (EA)
R493	1-216-815-11	METAL CHIP	330	5%	1/10W (E3, E15)
R494	1-216-817-11	METAL CHIP	470	5%	1/10W
R495	1-216-817-11	METAL CHIP	470	5%	1/10W
R496	1-216-864-11	METAL CHIP	0	5%	1/10W (AEP, UK)
R496	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (E3, E15, EA, MY, SP, KR, TH, PH, AUS)
R496	1-216-821-11	METAL CHIP	1K	5%	1/10W (E2)
R496	1-216-811-11	METAL CHIP	150	5%	1/10W (RU)
R497	1-216-833-11	METAL CHIP	10K	5%	1/10W
R498	1-216-835-11	METAL CHIP	15K	5%	1/10W
R499	1-216-835-11	METAL CHIP	15K	5%	1/10W
		< VIBRATOR >			
X401	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)			
X402	1-781-107-21	VIBRATOR, SERAMIC (16MHz)			
**********					
	A-4732-216-A	MIC BOARD, COMPLETE (E2)			
		**********			
	A-4732-322-A	MIC BOARD, COMPLETE (E3, E15, EA, MY, SP, KR, PH, AUS)			
		**********			
	A-4734-601-A	MIC BOARD, COMPLETE (TH)			
		**********			
		< CAPACITOR >			
C701	1-124-465-00	ELECT	0.47uF	20%	50V (E3, E15, EA, MY, SP, KR, TH, PH, AUS)
C702	1-124-465-00	ELECT	0.47uF	20%	50V (E3, E15, EA, MY, SP, KR, TH, PH, AUS)
C703	1-136-495-11	FILM	0.068uF	5.00%	50V (E3, E15, EA, MY, SP, KR, TH, PH, AUS)
C704	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (E3, E15, EA, MY, SP, KR, TH, PH, AUS)
C705	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V (E3, E15, EA, MY, SP, KR, TH, PH, AUS)
C706	1-126-960-11	ELECT	1uF	20.00%	50V (E3, E15, EA, MY, SP, KR, TH, PH, AUS)
C708	1-124-589-11	ELECT	47uF	20%	16V (E3, E15, EA, MY, SP, KR, TH, PH, AUS)
C709	1-124-589-11	ELECT	47uF	20%	16V (E3, E15, EA, MY, SP, KR, TH, PH, AUS)
C710	1-136-495-11	FILM	0.068uF	5.00%	50V (E3, E15, EA, MY, SP, KR, TH, PH, AUS)
C711	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (E3, E15, EA, MY, SP, KR, TH, PH, AUS)
C712	1-136-167-00	FILM	0.15uF	5.00%	50V (E3, E15, EA, MY, SP, KR, TH, PH, AUS)
C713	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V (E3, E15, EA, MY, SP, KR, TH, PH, AUS)
C714	1-126-960-11	ELECT	1uF	20.00%	50V (E3, E15, EA, MY, SP, KR, TH, PH, AUS)
C715	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V (E3, E15, EA, MY, SP, KR, TH, PH, AUS)
C716	1-126-961-11	ELECT	2.2uF	20.00%	50V (E3, E15, EA, MY, SP, KR, TH, PH, AUS)
C717	1-124-261-00	ELECT	10uF	20%	50V (EXCEPT AEP, UK, RU)
C719	1-126-961-11	ELECT	2.2uF	20.00%	50V (EXCEPT AEP, UK, RU)
C721	1-162-953-11	CERAMIC CHIP	100PF	5%	50V (EXCEPT AEP, UK, RU)
C722	1-126-964-11	ELECT	10uF	20.00%	50V (EXCEPT AEP, UK, RU)
C723	1-162-949-11	CERAMIC CHIP	47PF	5%	50V (EXCEPT AEP, UK, RU)
C724	1-126-961-11	ELECT	2.2uF	20.00%	50V (EXCEPT AEP, UK, RU)
C725	1-126-957-11	ELECT	0.22uF	20.00%	50V (E3, E15, EA, MY, SP, KR, TH, PH, AUS)
C725	1-126-956-91	ELECT	0.1uF	20.00%	50V (E2)
C726	1-162-957-11	CERAMIC CHIP	220PF	5%	50V (E3, E15, EA, MY, SP, KR, TH, PH, AUS)
C726	1-164-362-11	CERAMIC CHIP	470PF	5.00%	50V (E2)
C727	1-162-949-11	CERAMIC CHIP	47PF	5%	50V (E3, E15, EA, MY, SP, KR, TH, PH, AUS)
C728	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (E3, E15, EA, MY, SP, KR, TH, PH, AUS)
C729	1-126-957-11	ELECT	0.22uF	20.00%	50V (E3, E15, EA, MY, SP, KR, TH, PH, AUS)
C730	1-162-974-11	CERAMIC CHIP	0.01uF		50V (E3, E15, EA, MY, SP, KR, TH, PH, AUS)
C731	1-162-974-11	CERAMIC CHIP	0.01uF		50V (EXCEPT AEP, UK, RU)
C732	1-126-957-11	ELECT	0.22uF	20.00%	50V (EXCEPT AEP, UK, RU)
C736	1-126-934-11	ELECT	220uF	20.00%	10V (EXCEPT AEP, UK, RU)
		< CONNECTOR >			
CN701	1-785-330-11	PIN, CONNECTOR (LIGHT ANGLE) 4P (EXCEPT AEP, UK, RU)			
		< DIODE >			
D702	8-719-069-54	DIODE UDZSTE-175.1B (E3, E15, EA, MY, SP, KR, TH, PH, AUS)			
		< TERMINAL >			
EP701	1-537-738-21	TERMINAL, GROUND (EXCEPT AEP, UK, RU)			
		< IC >			
IC701	8-759-496-41	IC M65850FP-E1 (E3, E15, EA, MY, SP, KR, TH, PH, AUS)			
IC702	8-759-656-83	IC NJM4580MD- (TE2)(EXCEPT AEP, UK, RU)			

MIC MS-128 PANEL

Ref. No.	Part No.	Description	Remarks
		< JACK >	
J701	1-770-226-11	JACK (LARGE TYPE)(MIC1)	(EXCEPT AEP, UK, RU)
J702	1-770-226-11	JACK (LARGE TYPE)(MIC2)	(EXCEPT AEP, UK, RU, E2)
		< RESISTOR >	
R710	1-216-835-11	METAL CHIP 15K 5% 1/10W	(E3, E15, EA, MY, SP, KR, TH, PH, AUS)
R711	1-216-835-11	METAL CHIP 15K 5% 1/10W	(E3, E15, EA, MY, SP, KR, TH, PH, AUS)
R712	1-216-864-11	METAL CHIP 0 5% 1/10W	(EXCEPT AEP, UK, RU)
R713	1-216-845-11	METAL CHIP 100K 5% 1/10W	(EXCEPT AEP, UK, RU)
R714	1-216-833-11	METAL CHIP 10K 5% 1/10W	(E2, E3, E15, EA, MY, SP, KR, PH, AUS)
R715	1-216-833-11	METAL CHIP 10K 5% 1/10W	(E2, E3, E15, EA, MY, SP, KR, PH, AUS)
R716	1-216-809-11	METAL CHIP 100 5% 1/10W	(E2, E3, E15, EA, MY, SP, KR, PH, AUS)
R718	1-216-847-11	METAL CHIP 150K 5% 1/10W	(EXCEPT AEP, UK, RU)
R719	1-216-833-11	METAL CHIP 10K 5% 1/10W	(EXCEPT AEP, UK, RU)
R720	1-216-809-11	METAL CHIP 100 5% 1/10W	(EXCEPT AEP, UK, RU)
R721	1-216-841-11	METAL CHIP 47K 5% 1/10W	(E3, E15, EA, MY, SP, KR, TH, PH, AUS)
R721	1-216-837-11	METAL CHIP 22K 5% 1/10W	(E2)
R722	1-216-821-11	METAL CHIP 1K 5% 1/10W	(EXCEPT AEP, UK, RU)
R723	1-216-845-11	METAL CHIP 100K 5% 1/10W	(EXCEPT AEP, UK, RU)
R724	1-216-821-11	METAL CHIP 1K 5% 1/10W	(E3, E15, EA, MY, SP, KR, PH, AUS)
R725	1-216-833-11	METAL CHIP 10K 5% 1/10W	(E3, E15, EA, MY, SP, KR, TH, PH, AUS)
R726	1-216-833-11	METAL CHIP 10K 5% 1/10W	(EXCEPT AEP, UK, RU)
R727	1-216-821-11	METAL CHIP 1K 5% 1/10W	(EXCEPT AEP, UK, RU)
R733	1-216-837-11	METAL CHIP 22K 5% 1/10W	(E3, E15, EA, MY, SP, KR, TH, PH, AUS)
R734	1-216-837-11	METAL CHIP 22K 5% 1/10W	(E3, E15, EA, MY, SP, KR, TH, PH, AUS)
R735	1-216-837-11	METAL CHIP 22K 5% 1/10W	(E3, E15, EA, MY, SP, KR, TH, PH, AUS)
R736	1-216-813-11	METAL CHIP 220 5% 1/10W	(E3, E15, EA, MY, SP, KR, TH, PH, AUS)
R737	1-216-846-11	METAL CHIP 120K 5% 1/10W	(E3, E15, EA, MY, SP, KR, TH, PH, AUS)
R738	1-216-837-11	METAL CHIP 22K 5% 1/10W	(E3, E15, EA, MY, SP, KR, TH, PH, AUS)
R739	1-216-837-11	METAL CHIP 22K 5% 1/10W	(E3, E15, EA, MY, SP, KR, TH, PH, AUS)
R740	1-216-837-11	METAL CHIP 22K 5% 1/10W	(E3, E15, EA, MY, SP, KR, TH, PH, AUS)
R741	1-216-841-11	METAL CHIP 47K 5% 1/10W	(E3, E15, EA, MY, SP, KR, TH, PH, AUS)
R742	1-216-833-11	METAL CHIP 10K 5% 1/10W	(E3, E15, EA, MY, SP, KR, TH, PH, AUS)
		< VARIABLE RESISTOR >	
RV701	1-223-984-11	RES, VAR, CARBON 50K (ECHO LEVEL)	(E3, E15, EA, MY, SP, KR, TH, PH, AUS)
RV702	1-223-984-11	RES, VAR, CARBON 50K (MIC LEVEL)	(EXCEPT AEP, UK, RU)
**********			
		MS-128 BOARD	
		**********	
		< CONNECTOR >	
CN001	1-815-412-11	CONNECTOR, FFCI FPC 5P	
		< SWITCH >	
S001	1-786-357-12	SWITCH, LEVER (SLIDE)	
**********			
	A-4732-210-A	PANEL BOARD, COMPLETE (EXCEPT TH)	
		**********	
	A-4734-616-A	PANEL BOARD, COMPLETE (TH)	
		**********	
		< CAPACITOR >	
C601	1-126-947-11	ELECT 47uF 20.00% 16V	
C603	1-162-971-11	CERAMIC CHIP 0.001uF 10.00% 50V	
C604	1-162-971-11	CERAMIC CHIP 0.001uF 10.00% 50V	
C605	1-162-971-11	CERAMIC CHIP 0.001uF 10.00% 50V	
C606	1-162-971-11	CERAMIC CHIP 0.001uF 10.00% 50V	
		< CONNECTOR >	
CN603	1-785-329-11	PIN, CONNECTOR (LIGHT ANGLE) 3P	
CN604	1-785-328-11	PIN, CONNECTOR (LIGHT ANGRE) 2P	
CN605	1-784-784-11	CONNECTOR, FFC 23P	
		< DIODE >	
D601	8-719-058-04	DIODE SEL5223S-TP15 (I/⏻)	
D602	8-719-058-03	DIODE SEL5423E-TP15 (◁▷)	
D603	6-500-327-01	DIODE SEL5E23C-STP15 (MD (VIDEO))	
D604	6-500-327-01	DIODE SEL5E23C-STP15 (TAPE A/B)	
D605	6-500-327-01	DIODE SEL5E23C-STP15 (DVD)	
D606	6-500-327-01	DIODE SEL5E23C-STP15 (TUNER/BAND)	
		< IC >	
IC601	6-600-210-01	IC RPM7240-H8 (F)	
		< JUMPER RESISTOR >	
JR605	1-216-864-11	METAL CHIP 0 5% 1/10W	
JR606	1-216-864-11	METAL CHIP 0 5% 1/10W	
JR607	1-216-864-11	METAL CHIP 0 5% 1/10W	
JR608	1-216-864-11	METAL CHIP 0 5% 1/10W	
JR609	1-216-864-11	METAL CHIP 0 5% 1/10W	
JR610	1-216-864-11	METAL CHIP 0 5% 1/10W	
JR611	1-216-864-11	METAL CHIP 0 5% 1/10W	
JR612	1-216-864-11	METAL CHIP 0 5% 1/10W	
JR613	1-216-864-11	METAL CHIP 0 5% 1/10W	

Ref. No.	Part No.	Description			Remarks
		< TRANSISTOR >			
Q601	8-729-900-53	TRANSISTOR DTC114EKA-T146			
Q602	8-729-900-53	TRANSISTOR DTC114EKA-T146			
Q603	8-729-900-53	TRANSISTOR DTC114EKA-T146			
Q604	8-729-900-53	TRANSISTOR DTC114EKA-T146			
Q605	8-729-900-53	TRANSISTOR DTC114EKA-T146			
Q606	8-729-900-53	TRANSISTOR DTC114EKA-T146			
Q608	8-729-120-28	TRANSISTOR 2SC1623-T1-L5L6			
Q609	8-729-120-28	TRANSISTOR 2SC1623-T1-L5L6			
Q611	8-729-120-28	TRANSISTOR 2SC1623-T1-L5L6			
		< RESISTOR >			
R601	1-216-821-11	METAL CHIP	1K	5%	1/10W
R602	1-216-821-11	METAL CHIP	1K	5%	1/10W
R603	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R604	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R605	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R606	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R614	1-216-864-11	METAL CHIP	0	5%	1/10W
R621	1-216-819-11	METAL CHIP	680	5%	1/10W
R622	1-216-821-11	METAL CHIP	1K	5%	1/10W
R623	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R624	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R625	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R626	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R627	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R628	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R629	1-216-833-11	METAL CHIP	10K	5%	1/10W
R630	1-216-835-11	METAL CHIP	15K	5%	1/10W
R631	1-216-837-11	METAL CHIP	22K	5%	1/10W
R632	1-216-839-11	METAL CHIP	33K	5%	1/10W
R637	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R638	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R639	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R640	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R641	1-216-819-11	METAL CHIP	680	5%	1/10W
R642	1-216-821-11	METAL CHIP	1K	5%	1/10W
R643	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R644	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R645	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
		< RESISTOR >			
R654	1-216-821-11	METAL CHIP	1K	5%	1/10W
R655	1-216-821-11	METAL CHIP	1K	5%	1/10W
R656	1-216-821-11	METAL CHIP	1K	5%	1/10W
R657	1-216-809-11	METAL CHIP	100	5%	1/10W
R658	1-216-809-11	METAL CHIP	100	5%	1/10W
R659	1-216-809-11	METAL CHIP	100	5%	1/10W
R660	1-216-809-11	METAL CHIP	100	5%	1/10W
R661	1-216-809-11	METAL CHIP	100	5%	1/10W
R662	1-216-809-11	METAL CHIP	100	5%	1/10W
R664	1-216-821-11	METAL CHIP	1K	5%	1/10W
R665	1-216-821-11	METAL CHIP	1K	5%	1/10W
R671	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R672	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R673	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R674	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R675	1-216-821-11	METAL CHIP	1K	5%	1/10W
R676	1-216-821-11	METAL CHIP	1K	5%	1/10W
R678	1-216-864-11	METAL CHIP	0	5%	1/10W
R679	1-216-864-11	METAL CHIP	0	5%	1/10W
R680	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R681	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R682	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R683	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
		< SWITCH >			
S601	1-476-504-11	ENCODER, ROTARY (VOLUME)			
S602	1-762-875-21	SWITCH, KEYBOARD (DISPLAY)			
S603	1-762-875-21	SWITCH, KEYBOARD (I/⏻)			
S611	1-762-875-21	SWITCH, KEYBOARD (TUNER/BAND)			
S612	1-762-875-21	SWITCH, KEYBOARD (DVD)			
S613	1-762-875-21	SWITCH, KEYBOARD (TAPE A/B)			
S614	1-762-875-21	SWITCH, KEYBOARD (MD (VIDEO)			
S615	1-762-875-21	SWITCH, KEYBOARD (⏮◀◀–)			
S616	1-762-875-21	SWITCH, KEYBOARD (+▶▶⏭)			
S617	1-762-875-21	SWITCH, KEYBOARD (MUSIC MODE)			
S618	1-762-875-21	SWITCH, KEYBOARD (MOVIE MODE)			
S619	1-762-875-21	SWITCH, KEYBOARD (SOUND FIELD)			
S620	1-762-875-21	SWITCH, KEYBOARD (GROOVE)			
S621	1-762-875-21	SWITCH, KEYBOARD (■)			
S622	1-762-875-21	SWITCH, KEYBOARD (◁I▷)			
S623	1-762-875-21	SWITCH, KEYBOARD (❚❚)			
S631	1-762-875-21	SWITCH, KEYBOARD (COLOR SELECT)			
S632	1-762-875-21	SWITCH, KEYBOARD (EQ EDIT)			
S633	1-762-875-21	SWITCH, KEYBOARD (EFFECT)			
S634	1-762-875-21	SWITCH, KEYBOARD (KARAOKE/MPX) (EXCEPT AEP, UK RU)			
S634	1-762-875-21	SWITCH, KEYBOARD (MPX)(AEP, UK, RU)			
S635	1-762-875-21	SWITCH, KEYBOARD (DVD TOP MENU, ALBUM–)			
S636	1-762-875-21	SWITCH, KEYBOARD (DVD MENU, ALBUM+)			
**********					
	A-4732-208-A	REGULATOR BOARD, COMPLETE (EXCEPT TH) **********			
	A-4734-612-A	REGULATOR BOARD, COMPLETE (TH) **********			
*	4-931-401-01	HEAT SINK, V.OUT			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S			
		< CAPACITOR >			
C501	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C503	1-124-261-00	ELECT	10uF	20%	50V
C506	1-128-131-11	ELECT	22uF	20.00%	50V
C509	1-124-261-00	ELECT	10uF	20%	50V
C521	1-124-584-00	ELECT	100uF	20%	10V
C522	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C523	1-128-131-11	ELECT	22uF	20.00%	50V
C551	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C553	1-124-261-00	ELECT	10uF	20%	50V
C556	1-128-131-11	ELECT	22uF	20.00%	50V
C559	1-124-261-00	ELECT	10uF	20%	50V
C583	1-126-160-11	ELECT	1uF	20%	50V
C584	1-126-935-11	ELECT	470uF	20.00%	10V
C585	1-104-665-11	ELECT	100uF	20.00%	10V

REGULATOR

Ref. No.	Part No.	Description			Remarks
C586	1-162-945-11	CERAMIC CHIP	22PF	5%	50V
C587	1-130-483-00	MYLAR	0.01uF	5%	50V
C588	1-130-483-00	MYLAR	0.01uF	5%	50V
C589	1-126-964-11	ELECT	10uF	20.00%	50V
C590	1-126-965-91	ELECT	22uF	20.00%	50V
C901	1-126-964-11	ELECT	10uF	20.00%	50V
C902	1-126-916-11	ELECT	1000uF	20.00%	6.3V
C903	1-126-956-91	ELECT	0.1uF	20.00%	50V
C904	1-126-926-91	ELECT	1000uF	20.00%	10V
C905	1-130-483-00	MYLAR	0.01uF	5%	50V
C906	1-130-483-00	MYLAR	0.01uF	5%	50V
C907	1-119-939-51	ELECT	6800uF	20.00%	35V
C909	1-126-952-11	ELECT	1000uF	20.00%	35V
C910	1-165-718-21	ELECT	3300uF	20%	6.3V
C911	1-126-926-91	ELECT	1000uF	20.00%	10V
C912	1-126-964-11	ELECT	10uF	20.00%	50V
C913	1-126-767-11	ELECT	1000uF	20.00%	16V
C914	1-126-927-11	ELECT	2200uF	20.00%	10V
C915	1-126-956-91	ELECT	0.1uF	20.00%	50V
C919	1-126-952-11	ELECT	1000uF	20.00%	35V
C920	1-128-947-21	ELECT	3300uF	20%	10V
C921	1-126-926-91	ELECT	1000uF	20.00%	10V
C923	1-126-916-11	ELECT	1000uF	20.00%	6.3V
C924	1-126-916-11	ELECT	1000uF	20.00%	6.3V
C926	1-126-947-11	ELECT	47uF	20.00%	16V
C927	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C928	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C929	1-164-156-11	CERAMIC CHIP	0.1uF		25V
		< CONNECTOR >			
CN501	1-573-829-11	CONNECTOR, BOARD TO BOARD 15P			
CN502	1-770-828-41	CONNECTOR, BOARD TO BOARD 16P			
CN503	1-568-373-11	PIN, CONNECTOR 8P			
CN504	1-794-568-11	PIN, CONNECTOR 12P			
* CN506	1-564-715-11	PIN, CONNECTOR (SMALL TYPE)13P			
* CN507	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P			
		< DIODE >			
D581	8-719-988-61	DIODE 1SS355TE-17			
D901	8-719-028-23	DIODE D3SBA20-4101			
D902	8-719-080-53	DIODE RK36LF-B3			
D903	8-719-080-53	DIODE RK36LF-B3			
D905	8-719-056-85	DIODE UDZSTE-178.2B			
D911	6-500-522-21	DIODE 10EDB40-TB3			
D912	6-500-522-21	DIODE 10EDB40-TB3			
D913	6-500-522-21	DIODE 10EDB40-TB3			
		< TERMINAL >			
EP502	1-537-738-21	TERMINAL, GROUND			
EP901	1-537-738-21	TERMINAL, GROUND			
		< FERRITE BEAD >			
FB912	1-410-397-21	FERRITE BEAD INDUCTOR			
		< IC >			
IC501	8-759-939-73	IC BA3308			

Ref. No.	Part No.	Description			Remarks
IC581	8-759-100-96	IC NJM4558M-TE2			
IC901	8-759-701-59	IC TA7809S			
IC902	8-759-701-59	IC TA7809S			
IC903	6-700-813-01	IC SI-8033JF			
IC904	8-759-518-68	IC PQ12RF21			
IC905	8-759-231-53	IC TA7805S			
IC906	8-759-450-47	IC BA05T			
IC913	6-700-812-01	IC SI-8050JF			
		< JUMPER RESISTOR >			
JR500	1-216-864-11	METAL CHIP	0	5%	1/10W
JR501	1-216-864-11	METAL CHIP	0	5%	1/10W
JR502	1-216-864-11	METAL CHIP	0	5%	1/10W
JR503	1-216-864-11	METAL CHIP	0	5%	1/10W
JR504	1-216-864-11	METAL CHIP	0	5%	1/10W
JR505	1-216-864-11	METAL CHIP	0	5%	1/10W
JR506	1-216-864-11	METAL CHIP	0	5%	1/10W
JR507	1-216-864-11	METAL CHIP	0	5%	1/10W
		< COIL >			
L901	1-456-467-11	INDUCTOR	150uH		
L911	1-456-468-11	INDUCTOR	100uH		
L912	1-414-398-11	INDUCTOR	10uH		
L913	1-414-398-11	INDUCTOR	10uH		
		< TRANSISTOR >			
Q501	8-729-141-73	TRANSISTOR 2SC3624A-T1L15L16			
Q502	8-729-141-73	TRANSISTOR 2SC3624A-T1L15L16			
Q520	8-729-900-53	TRANSISTOR DTC114EKA-T146			
Q521	8-729-900-53	TRANSISTOR DTC114EKA-T146			
Q522	8-729-900-53	TRANSISTOR DTC114EKA-T146			
Q523	8-729-027-23	TRANSISTOR DTA114EKA-T146			
Q524	8-729-027-23	TRANSISTOR DTA114EKA-T146			
Q551	8-729-141-73	TRANSISTOR 2SC3624A-T1L15L16			
Q552	8-729-141-73	TRANSISTOR 2SC3624A-T1L15L16			
Q581	8-729-900-53	TRANSISTOR DTC114EKA-T146			
Q582	8-729-900-53	TRANSISTOR DTC114EKA-T146			
Q583	8-729-120-28	TRANSISTOR 2SC1623-T1-L5L6			
Q584	8-729-900-53	TRANSISTOR DTC114EKA-T146			
Q585	8-729-900-53	TRANSISTOR DTC114EKA-T146			
Q901	8-729-114-93	TRANSISTOR 2SB734			
Q902	8-729-900-53	TRANSISTOR DTC114EKA-T146			
Q903	8-729-900-53	TRANSISTOR DTC114EKA-T146			
Q904	8-729-900-53	TRANSISTOR DTC114EKA-T146			
Q907	8-729-026-68	TRANSISTOR 2SD2525 (TP)			
Q908	8-729-120-28	TRANSISTOR 2SC1623-T1-L5L6			
Q909	8-729-900-53	TRANSISTOR DTC114EKA-T146			
Q910	8-729-900-53	TRANSISTOR DTC114EKA-T146			
		< RESISTOR >			
R500	1-216-813-11	METAL CHIP	220	5%	1/10W
R501	1-216-845-11	METAL CHIP	100K	5%	1/10W
R502	1-216-809-11	METAL CHIP	100	5%	1/10W
R503	1-216-833-11	METAL CHIP	10K	5%	1/10W
R504	1-216-845-11	METAL CHIP	100K	5%	1/10W
R506	1-216-833-11	METAL CHIP	10K	5%	1/10W
R507	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R508	1-216-821-11	METAL CHIP	1K	5%	1/10W

Ref. No.	Part No.	Description			Remarks
R509	1-216-836-11	METAL CHIP	18K	5%	1/10W
R510	1-216-816-11	METAL CHIP	390	5%	1/10W
R511	1-216-839-11	METAL CHIP	33K	5%	1/10W
R512	1-216-845-11	METAL CHIP	100K	5%	1/10W
R513	1-216-821-11	METAL CHIP	1K	5%	1/10W
R514	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R521	1-216-809-11	METAL CHIP	100	5%	1/10W
R522	1-216-861-11	METAL CHIP	2.2M	5%	1/10W
R523	1-216-809-11	METAL CHIP	100	5%	1/10W
R525	1-216-809-11	METAL CHIP	100	5%	1/10W
R551	1-216-845-11	METAL CHIP	100K	5%	1/10W
R552	1-216-809-11	METAL CHIP	100	5%	1/10W
R553	1-216-833-11	METAL CHIP	10K	5%	1/10W
R554	1-216-845-11	METAL CHIP	100K	5%	1/10W
R556	1-216-833-11	METAL CHIP	10K	5%	1/10W
R557	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R558	1-216-821-11	METAL CHIP	1K	5%	1/10W
R559	1-216-836-11	METAL CHIP	18K	5%	1/10W
R560	1-216-816-11	METAL CHIP	390	5%	1/10W
R561	1-216-839-11	METAL CHIP	33K	5%	1/10W
R562	1-216-845-11	METAL CHIP	100K	5%	1/10W
R563	1-216-821-11	METAL CHIP	1K	5%	1/10W (EXCEPT TH)
R564	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R581	1-216-845-11	METAL CHIP	100K	5%	1/10W
R582	1-216-845-11	METAL CHIP	100K	5%	1/10W
R583	1-216-832-11	METAL CHIP	8.2K	5%	1/10W
R584	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R585	1-216-833-11	METAL CHIP	10K	5%	1/10W
R586	1-216-821-11	METAL CHIP	1K	5%	1/10W
R587	1-216-821-11	METAL CHIP	1K	5%	1/10W
R588	1-216-861-11	METAL CHIP	2.2M	5%	1/10W
R589	1-216-835-11	METAL CHIP	15K	5%	1/10W
R590	1-216-835-11	METAL CHIP	15K	5%	1/10W
R591	1-216-833-11	METAL CHIP	10K	5%	1/10W
R592	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R593	1-216-833-11	METAL CHIP	10K	5%	1/10W
R594	1-216-833-11	METAL CHIP	10K	5%	1/10W
R595	1-216-833-11	METAL CHIP	10K	5%	1/10W
R596	1-216-837-11	METAL CHIP	22K	5%	1/10W
R597	1-216-864-11	METAL CHIP	0	5%	1/10W (EXCEPT TH)
R598	1-216-809-11	METAL CHIP	100	5%	1/10W
R900	1-216-833-11	METAL CHIP	10K	5%	1/10W
R901	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R902	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R903	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R905	1-216-864-11	METAL CHIP	0	5%	1/10W
R906	1-216-833-11	METAL CHIP	10K	5%	1/10W
R907	1-216-809-11	METAL CHIP	100	5%	1/10W
R908	1-216-809-11	METAL CHIP	100	5%	1/10W
R909	1-216-809-11	METAL CHIP	100	5%	1/10W
R910	1-216-821-11	METAL CHIP	1K	5%	1/10W
R914	1-216-815-11	METAL CHIP	330	5%	1/10W
R915	1-216-810-11	METAL CHIP	120	5%	1/10W
R916	1-216-849-11	METAL CHIP	220K	5%	1/10W
R917	1-216-837-11	METAL CHIP	22K	5%	1/10W
R918	1-216-837-11	METAL CHIP	22K	5%	1/10W
R919	1-216-833-11	METAL CHIP	10K	5%	1/10W

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Ref. No.	Part No.	Description			Remarks
	A-4728-690-A	RF BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C001	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C002	1-124-779-00	ELECT CHIP	10uF	20%	16V
C003	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C004	1-124-779-00	ELECT CHIP	10uF	20%	16V
C005	1-128-993-21	ELECT CHIP	22uF	20%	10V
C006	1-128-993-21	ELECT CHIP	22uF	20%	10V
C008	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C009	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C010	1-115-416-11	CERAMIC CHIP	0.001uF	5.00%	25V
C011	1-115-416-11	CERAMIC CHIP	0.001uF	5.00%	25V
C012	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C013	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C014	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C015	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C016	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C017	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C018	1-164-172-11	CERAMIC CHIP	0.0056uF	10.00%	25V
C019	1-164-172-11	CERAMIC CHIP	0.0056uF	10.00%	25V
C020	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C021	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C022	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C023	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C024	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C025	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C026	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C027	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C028	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C029	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C030	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C031	1-115-416-11	CERAMIC CHIP	0.001uF	5.00%	25V
C032	1-165-176-11	CERAMIC CHIP	0.047uF	10.00%	16V
C033	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C034	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C035	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C036	1-125-891-11	CERAMIC CHIP	0.47uF	10.00%	10V
C037	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C038	1-164-677-11	CERAMIC CHIP	0.033uF	10.00%	16V
C039	1-164-677-11	CERAMIC CHIP	0.033uF	10.00%	16V
C040	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C041	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C042	1-164-218-11	CERAMIC CHIP	180PF	0.25PF	50V
C049	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
		< CONNECTOR >			
CN001	1-815-031-11	CONNECTOR, FFC/FPC (ZIF) 24P			
CN002	1-784-836-21	CONNECTOR, FFC (LIF (NON-ZIF)) 29P			
CN003	1-784-861-21	CONNECTOR, FFC (LIF (NON-ZIF)) 9P			
		< DIODE >			
D001	8-719-988-61	DIODE 1SS355TE-17			
D002	8-719-988-61	DIODE 1SS355TE-17			
		< IC >			
IC001	6-703-551-01	IC CXD1881AR			

RF VIDEO

Ref. No.	Part No.	Description			Remarks
		< COIL >			
L001	1-412-031-11	INDUCTOR CHIP	47uH		
L002	1-412-031-11	INDUCTOR CHIP	47uH		
		< TRANSISTOR >			
Q001	8-729-903-46	TRANSISTOR 2SB1132-T100-QR			
Q002	8-729-903-46	TRANSISTOR 2SB1132-T100-QR			
		< RESISTOR >			
R001	1-218-668-11	METAL CHIP	100	0.5%	1/10W
R003	1-216-803-11	METAL CHIP	33	5%	1/10W
R004	1-216-803-11	METAL CHIP	33	5%	1/10W
R005	1-216-841-11	METAL CHIP	47K	5%	1/10W
R006	1-216-817-11	METAL CHIP	470	5%	1/10W
R007	1-216-803-11	METAL CHIP	33	5%	1/10W
R008	1-216-803-11	METAL CHIP	33	5%	1/10W
R009	1-216-841-11	METAL CHIP	47K	5%	1/10W
R010	1-216-817-11	METAL CHIP	470	5%	1/10W
R011	1-216-864-11	METAL CHIP	0	5%	1/10W
R012	1-216-864-11	METAL CHIP	0	5%	1/10W
R013	1-216-864-11	METAL CHIP	0	5%	1/10W
R014	1-216-864-11	METAL CHIP	0	5%	1/10W
R015	1-216-864-11	METAL CHIP	0	5%	1/10W
R016	1-216-864-11	METAL CHIP	0	5%	1/10W
R017	1-216-864-11	METAL CHIP	0	5%	1/10W
R018	1-216-864-11	METAL CHIP	0	5%	1/10W
R019	1-216-864-11	METAL CHIP	0	5%	1/10W
R020	1-216-864-11	METAL CHIP	0	5%	1/10W
R021	1-216-864-11	METAL CHIP	0	5%	1/10W
R022	1-216-813-11	METAL CHIP	220	5%	1/10W
R023	1-216-820-11	METAL CHIP	820	5%	1/10W
R024	1-216-864-11	METAL CHIP	0	5%	1/10W
R025	1-216-809-11	METAL CHIP	100	5%	1/10W
R026	1-218-718-11	METAL CHIP	12K	0.5%	1/10W
R027	1-216-864-11	METAL CHIP	0	5%	1/10W
R028	1-216-864-11	METAL CHIP	0	5%	1/10W
R029	1-216-864-11	METAL CHIP	0	5%	1/10W
R032	1-216-809-11	METAL CHIP	100	5%	1/10W
R033	1-216-864-11	METAL CHIP	0	5%	1/10W
R034	1-219-570-11	METAL CHIP	10M	5%	1/10W
R035	1-216-864-11	METAL CHIP	0	5%	1/10W
R041	1-216-821-11	METAL CHIP	1K	5%	1/10W
**********					
	A-4732-205-A	VIDEO BOARD, COMPLETE (EXCEPT TH)			
		**********			
	A-4734-606-A	VIDEO BOARD, COMPLETE (TH)			
		**********			
		< CAPACITOR >			
C801	1-104-665-11	ELECT	100uF	20.00%	10V
C802	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C803	1-126-965-91	ELECT	22uF	20.00%	50V
C804	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C805	1-126-960-11	ELECT	1uF	20.00%	50V
C806	1-126-960-11	ELECT	1uF	20.00%	50V
C807	1-126-960-11	ELECT	1uF	20.00%	50V
C808	1-126-960-11	ELECT	1uF	20.00%	50V

Ref. No.	Part No.	Description			Remarks
C809	1-126-960-11	ELECT	1uF	20.00%	50V
C810	1-126-960-11	ELECT	1uF	20.00%	50V
C811	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C812	1-126-935-11	ELECT	470uF	20.00%	6.3V
C813	1-104-665-11	ELECT	100uF	20.00%	10V
C814	1-126-935-11	ELECT	470uF	20.00%	6.3V
C815	1-104-665-11	ELECT	100uF	20.00%	10V
C816	1-126-935-11	ELECT	470uF	20.00%	6.3V
C817	1-104-665-11	ELECT	100uF	20.00%	10V
C818	1-104-665-11	ELECT	100uF	20.00%	10V
C819	1-126-965-91	ELECT	22uF	20.00%	50V
C820	1-104-665-11	ELECT	100uF	20.00%	10V
C821	1-126-965-91	ELECT	22uF	20.00%	50V
C822	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C823	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C824	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C825	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C826	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C827	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C828	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C829	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C830	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
		< CONNECTOR >			
CN801	1-779-554-21	CONNECTOR, FFC (LIF (NON-ZIF)) 17P			
		< FERRITE BEAD >			
FB801	1-216-864-11	METAL CHIP	0	5%	1/10W
FB802	1-216-864-11	METAL CHIP	0	5%	1/10W
FB803	1-216-864-11	METAL CHIP	0	5%	1/10W
FB804	1-216-864-11	METAL CHIP	0	5%	1/10W
FB805	1-216-864-11	METAL CHIP	0	5%	1/10W
FB806	1-216-864-11	METAL CHIP	0	5%	1/10W
		< IC >			
IC801	6-702-335-01	IC MM1568AJBE			
		< JACK >			
J801	1-537-943-11	TERMINAL, S (S VIDEO OUT)			
J802	1-774-227-11	JACK, PIN 1P (VIDEO OUT)			
J803	1-817-601-11	JACK, PIN 3P (COMPONENT VIDEO OUT)			
		< COIL >			
L801	1-412-058-11	INDUCTOR CHIP	10uH		
		< TRANSISTOR >			
Q801	8-729-027-23	TRANSISTOR DTA114EKA-T146			
Q802	8-729-900-53	TRANSISTOR DTC114EKA-T146			
		< RESISTOR >			
R801	1-216-833-11	METAL CHIP	10K	5%	1/10W
R802	1-216-833-11	METAL CHIP	10K	5%	1/10W
R803	1-216-833-11	METAL CHIP	10K	5%	1/10W
R804	1-216-833-11	METAL CHIP	10K	5%	1/10W
R805	1-218-285-11	METAL CHIP	75	5%	1/10W

Ref. No.	Part No.	Description			Remarks
R806	1-218-284-11	METAL CHIP	68	5%	1/10W
R807	1-218-284-11	METAL CHIP	68	5%	1/10W
R808	1-218-284-11	METAL CHIP	68	5%	1/10W
R809	1-218-285-11	METAL CHIP	75	5%	1/10W
R810	1-218-285-11	METAL CHIP	75	5%	1/10W

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MISCELLANEOUS
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54	1-775-190-11	WIRE (FLAT TYPE)(21 CORE)(TH)
54	1-827-402-11	WIRE (FLAT TYPE)(21 CORE) (E2, E3, E15, EA, MY, SP, KR, PH)
54	1-827-403-11	WIRE (FLAT TYPE)(25 CORE) (AEP, UK, RU, AUS)
56	1-827-003-11	CORD (WITH CONNECTOR) 19P
57	1-775-073-11	WIRE (FLAT TYPE)(7 CORE)(TH)
57	1-827-404-11	WIRE (FLAT TYPE)(7 CORE)(EXCEPT TH)
58	1-791-112-11	WIRE (FLAT TYPE)(11 CORE) (E3, E15, EA, MY, SP, KR, TH, PH, AUS)
60	1-693-603-31	TUNER (FM/AM) (E2, E3, E15, EA, MY, SP, TH, PH, AUS)
60	1-693-604-11	TUNER (FM/AM)(AEP, UK)
60	1-693-605-11	TUNER (FM/AM)(KR)
60	1-693-627-11	TUNER (FM/AM)(RU)
61	1-769-938-11	WIRE (FLAT TYPE)(11 CORE)(EXCEPT AEP, UK)
61	1-773-002-11	WIRE (FLAT TYPE)(15 CORE)(AEP, UK)
62	1-773-182-11	WIRE (FLAT TYPE)(23 CORE) (EXCEPT AEP, UK, RU, AUS)
62	1-773-212-11	WIRE (FLAT TYPE)(25 CORE) (AEP, UK, RU, AUS)
63	1-500-657-11	CORE, FERRIET
64	1-827-012-11	CORD (WITH CONNECTOR) 20P
66	1-792-108-11	WIRE (FLAT TYPE)(17 CORE)(TH)
66	1-827-401-11	WIRE (FLAT TYPE)(17 CORE)(EXCEPT TH)
68	1-787-056-11	FAN, DC
71	1-500-657-11	CORE, FERRITE
411	1-689-264-11	PWB, FLEXIBLE
⚠412	A-4713-410-A	OPTICAL PICK-UP (DBU-1)
415	1-775-265-11	WIRE (FLAT TYPE)(29 CORE)
416	1-827-178-11	WIRE (FLAT TYPE)(5 CORE)
LCD201	1-805-136-11	DISPLAY PANEL, LIQUID CRYSTAL
M001	1-763-967-11	MOTOR, DC (LOADING)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.